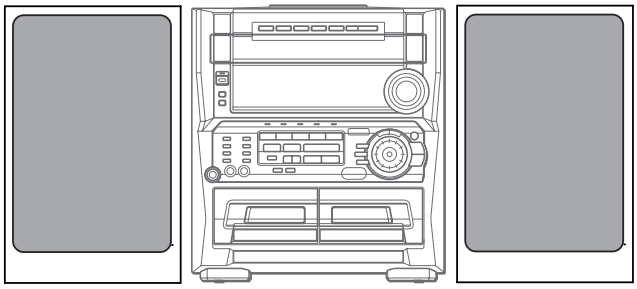
aiwa SERVICE

Z-L700 U
Z-L800 LH



SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : 2ZM-3MK2 PR5NM
BASIC CD MECHANISM : 6ZG-1 ZRDM

SYSTEM	CD CASSEIVER	SPEAKER	STEREO TURNTABLE	REMOTE CONTROLLER
Z-L700	CX-ZL700	SX-WZL700	PX-E860	RC-ZAS12
Z-L800	CX-ZL800	SX-WZL800	-	

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” Z-L700 (U) / Z-L800 (LH), (S/M Code No. 09-002-422-7T1).
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, (S/M Code No. 09-001-338-7N2).
- If requiring information about the Stereo Turntable, see Service Manual of PX-E860 (U), (S/M Code No. 09-993-322-0R1).

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S/M Code No. 09-004-422-7R1

REVISION DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM tuner section>

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<Amplifier section>

Mid-high frequency amplifier	
Power output	U : 40 W + 40 W (200 Hz to 20 kHz, T.H.D. less than 1 %, 8 ohms) LH : Rated 37 W + 37 W (1 kHz, T.H.D. 1 %, 8 ohms) Reference : 45 W + 45 W (8 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	U : 0.15 % (15 W, 1 kHz, 8 ohms)
Low frequency amplifier	
Power output	U : 120 W + 120 W (50 Hz to 200 Hz, T.H.D. less than 1 %, 6 ohms) LH : Rated 110 W + 110 W (75 Hz, T.H.D. 1 %, 6 ohms) Reference : 135 W + 135 W (6 ohms, T.H.D. 10 %, 75 Hz)
Total harmonic distortion	U : 0.15 % (60 W, 75 Hz, 6 ohms) LH : 0.15 % (45 W, 75 Hz, 6 ohms)
Inputs	VIDEO / AUX: 310 mV (adjustable) PHONO : 400 mV (47 kohms) MIC 1,MIC 2 : 1.4 mV (20 kohms)
Outputs	CD DIGITAL OUT (OPTICAL) SPEAKERS HIGH FREQ : accept speakers of 8 ohms or more SPEAKERS LOW FREQ : accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 8 – 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape : 50 Hz – 16000 Hz Normal tape : 50 Hz – 15000 Hz
Signal-to-noise ratio	50 dB (CrO_2 tape peak level, above 400 Hz)
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording / Playback / erase head x 1

<Speaker system SX–WZL700 (U)>

Cabinet type	3 way, built-in subwoofer
Speakers	Subwoofer : 200 mm ($7^7/_8$ in.) cone type Full range : 120 mm ($4^3/_4$ in.) cone type Super tweeter: 60 mm ($2^3/_8$ in.) ceramic type
Impedance	6 ohms / 8 ohms
Output sound pressure level	88 dB/W/m
Dimensions	260 x 495 x 355 mm
(W x H x D)	($10^1/_4$ x $19^1/_2$ x 14 in.)
Weight	8.5 kg (18 lbs 12 oz.)

<Speaker system SX–WZL800 (LH)>

Cabinet type	3 way, built-in subwoofer
Speakers	Subwoofer : 200 mm ($7^7/_8$ in.) cone type Full range : 120 mm ($4^3/_4$ in.) cone type Super tweeter: 60 mm ($2^3/_8$ in.) cone type
Impedance	6 ohms / 8 ohms
Output sound pressure level	88 dB/W/m
Dimensions	260 x 495 x 355 mm
(W x H x D)	($10^1/_4$ x $19^1/_2$ x 14 in.)
Weight	8.5 kg (18 lbs 12 oz.)

<General>

Power requirements	U : 120 V AC, 60 Hz LH : 120 V / 220 – 230 V / 240 V AC, (switchable), 50 / 60 Hz
Power consumption	U : 210 W LH : 240 W
Power consumption in standby mode (LH)	With power-economizing mode off : 45 W With power-economizing mode on : 0.9 W
Dimensions of main unit	360 x 395.3 x 402.3 mm
(W x H x D)	($14^1/_4$ x $15^5/_8$ x $15^7/_8$ in.)
Weight of main unit	U : 12.5 kg (27 lbs 9 oz.) LH : 12.4 kg

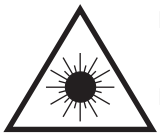
• Design and specifications are subject to change without notice.

• The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound,Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

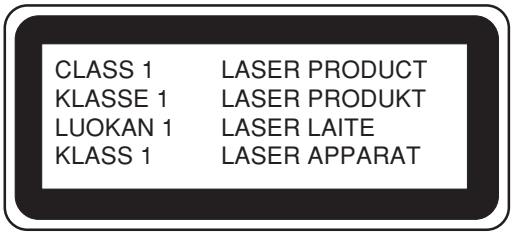
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



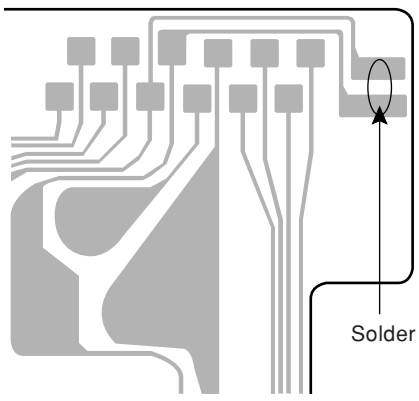
Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

PICK-UP Assy P.C.B



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

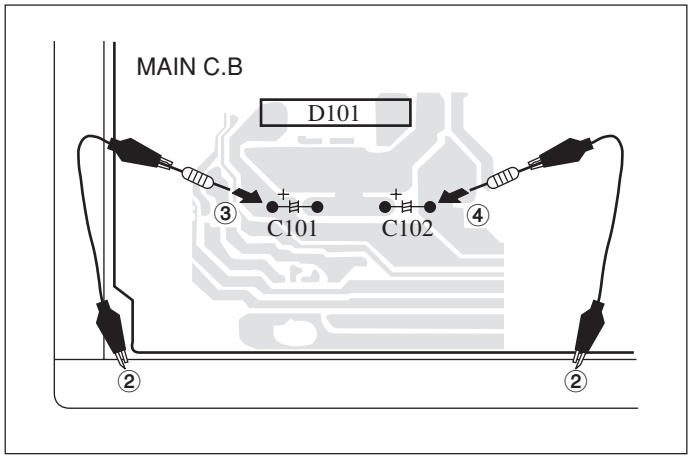


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

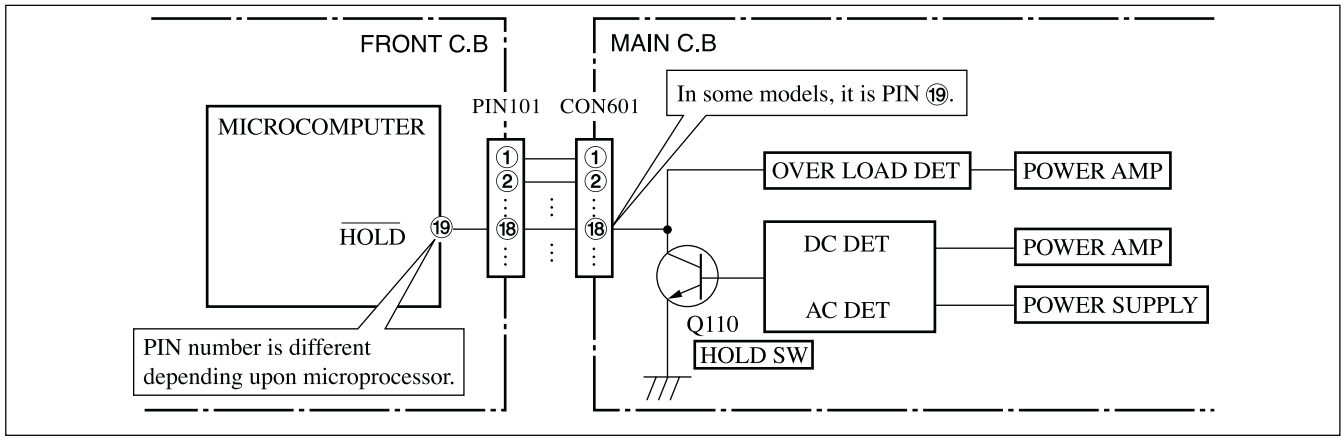


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

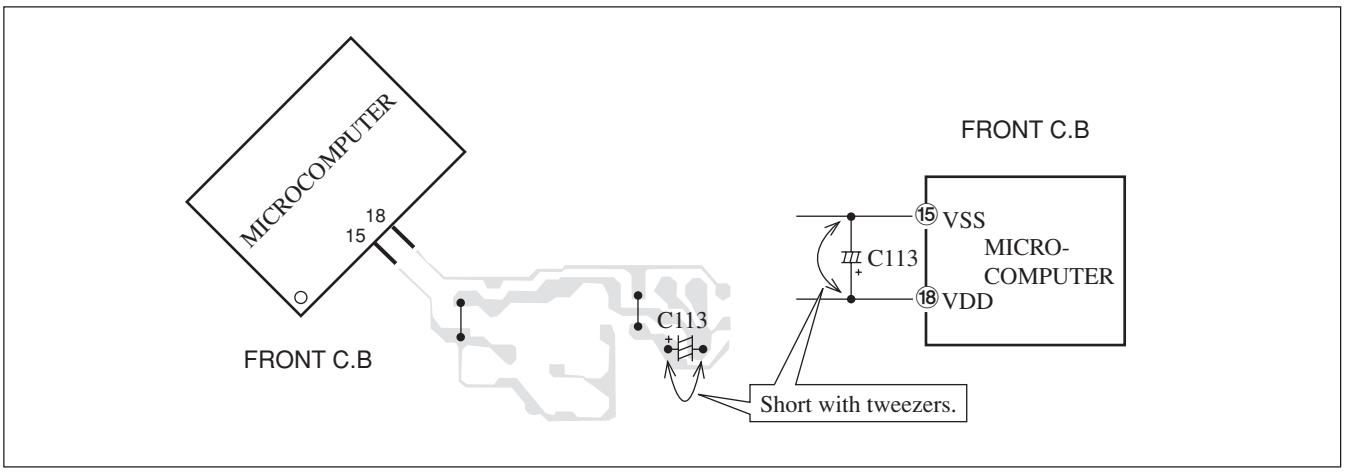


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8A-MA3-656-010		C-IC,LC876580W-5P55
	87-A21-418-010		IC,STK490-340<8LH>
	87-A21-397-010		IC,STK490-070
	87-A21-021-040		C-IC,BU2099FV
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-577-040		C-IC,M61506FP
	87-A21-482-010		IC,RPM6938-H4
	87-A21-018-040		C-IC,M65849BFP631D<8LH>
	87-A21-452-010		C-IC,BD3876KS2
	87-070-289-040		IC,BU 2092F
	87-A21-415-010		IC,LA1843
	87-A21-051-040		C-IC,BU9990-03FS<8LH>
	87-070-127-110		IC,LC72131 D
	87-020-454-010		IC,DN6851
TRANSISTOR			
	87-026-609-080		TR,KTA1266GR
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-318-080		TR,CSA952K
	89-213-702-010		TR,2SB1370E
	87-A30-218-080		TR,2SB1237Q
	87-A30-257-080		C-TR,2SD1306E
	87-A30-107-070		C-TR,CMBT5401
	87-026-245-080		TR,DTC114ES
	87-A30-198-080		TR,KTC3199GR
	87-A30-484-080		C-TR,KRA 102S
	87-A30-269-040		C-FET,2SJ461-T1
	87-A30-190-080		TR,CC5551<7U>
	87-A30-087-080		C-FET,2SK2158
	87-A30-097-010		TR,FN 1016<7U>
	87-A30-468-080		C-TR,KRC 102S-RTK
	87-A30-098-010		TR,FP 1016<7U>
	87-A30-106-070		C-TR,CMBT5551<8LH>
	87-A30-106-040		C-TR,CMBT5551<7U>
	87-A30-107-080		C-TR,CMBT5401
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-329-080		TR,CD1585BC
	87-A30-063-080		C-TR,KRA 104S
	87-A30-074-080		C-TR,RT1P 141C<7U>
	87-A30-186-010		FET,2SK3053<7U>
	89-327-143-080		TR,2SC2714O(0.1W)
	87-A30-489-080		C-TR,KRA107S
	87-A30-234-080		TR,CSC4115BC
	87-026-463-080		TR,2SA933SRS
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-673-090		DIODE,D10XB20
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-780-080		ZENER,UZ33BSD
	87-A40-736-080		DIODE,1N4148M(SEM)
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-768-080		ZENER,UZ 16BSA
	87-017-447-010		DIODE,GBU4DL
	87-017-154-080		ZENER,HZS6C3L
	87-020-331-080		CHIP-DIODE,DAN202K
	87-017-654-060		DIODE,GBU6J
	87-A40-488-080		DIODE,1SS244<7U>
	87-A40-751-080		ZENER,UZ6.2BSB
	87-A40-747-080		ZENER,UZ5.1BSB
	87-A40-646-010		DIODE,FMB-G16L<7U>
	87-A40-802-080		ZENER,UZ5.1BSC
	87-A40-745-080		ZENER,UZ4.7BSA
	87-A40-749-080		ZENER,UZ5.6BSB<8LH>
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C3	87-A10-712-080		C-CAP,S 0.22-50 F
C4	87-A10-712-080		C-CAP,S 0.22-50 F
C21	87-016-035-090		CAP, E 6800-35 VR
C22	87-016-035-090		CAP, E 6800-35 VR
C25	87-016-300-080		CAP, ELECT 22-100
C26	87-016-300-080		CAP, ELECT 22-100
C27	87-016-300-080		CAP, ELECT 22-100
C28	87-016-300-080		CAP, ELECT 22-100
C31	87-010-263-080		CAP, ELECT 100-10V
C32	87-010-197-080		CAP, CHIP 0.01-25
C33	87-010-263-080		CAP, ELECT 100-10V<7U>
C34	87-010-247-080		CAP, ELECT 100-50V
C35	87-010-380-080		CAP, ELECT 47-16V
C36	87-010-381-080		CAP, ELECT 330-16V
C38	87-010-385-080		CAP, ELECT 220-25V
C39	87-010-385-080		CAP, ELECT 220-25V
C40	87-010-197-080		CAP, CHIP 0.01-25
C60	87-010-403-080		CAP, ELECT 3.3-50V
C61	87-010-260-080		CAP, ELECT 47-25V
C80	87-010-401-080		CAP, ELECT 1-50V
C81	87-010-374-080		CAP, ELECT 47-10V
C82	87-010-380-080		CAP, ELECT 47-16V
C104	87-010-196-080		CHIP CAPACITOR,0.1-25
C105	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-401-080		CAP, ELECT 1-50 M<8LH>
C112	87-010-401-080		CAP, ELECT 1-50 M<8LH>
C113	87-010-545-080		CAP, ELECT 0.22-50V
C114	87-010-545-080		CAP, ELECT 0.22-50V
C115	87-010-546-080		CAP, ELECT 0.33-50V
C116	87-010-546-080		CAP, ELECT 0.33-50V
C117	87-010-196-080		CHIP CAPACITOR,0.1-25
C121	87-010-404-080		CAP, ELECT 4.7-50V
C122	87-010-404-080		CAP, ELECT 4.7-50V
C171	87-012-368-080		C-CAP,S 0.1-50 F
C172	87-012-368-080		C-CAP,S 0.1-50 F
C173	87-012-368-080		C-CAP,S 0.1-50 F
C174	87-012-368-080		C-CAP,S 0.1-50 F
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-157-080		C-CAP,S 330P-50 CH
C306	87-012-157-080		C-CAP,S 330P-50 CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022-25
C312	87-010-198-080		CAP, CHIP 0.022-25
C313	87-010-178-080		CHIP CAP 1000P-50
C314	87-010-178-080		CHIP CAP 1000P-50
C315	87-010-178-080		CHIP CAP 1000P-50
C316	87-010-178-080		CHIP CAP 1000P-50
C321	87-012-142-080		CAP, S 0.33-16
C322	87-012-142-080		CAP, S 0.33-16
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C351	87-012-140-080		CAP 470P-50
C352	87-012-140-080		CAP 470P-50
C354	87-010-175-080		CAP 560P-50
C355	87-010-178-080		C-CAP,S 1000P-50 KB
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01-25 KB
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-A11-177-080		C-CAP,S 0.15-16 K B
C374	87-A11-177-080		C-CAP,S 0.15-16 K B
C378	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
C379	87-010-406-080		CAP, ELECT 22-50
C380	87-010-406-080		CAP, ELECT 22-50
C386	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
C388	87-012-156-080		C-CAP,S 220P-50 J CH
C391	87-010-319-080		C-CAP,S 56P-50 J CH
C392	87-010-319-080		C-CAP,S 56P-50 J CH
C393	87-010-319-080		C-CAP,S 56P-50 J CH
C394	87-010-319-080		C-CAP,S 56P-50 J CH
C501	87-010-263-080		CAP, ELECT 100-10V<8LH>
C502	87-010-196-080		CHIP CAPACITOR,0.1-25<8LH>
C503	87-016-460-080		C-CAP,S 0.22-16 K B<8LH>
C504	87-016-460-080		C-CAP,S 0.22-16 K B<8LH>
C505	87-016-460-080		C-CAP,S 0.22-16 K B<8LH>
C506	87-010-184-080		CHIP CAPACITOR 3300P-50<8LH>
C507	87-010-177-080		C-CAP,S 820P-50 SL<8LH>
C508	87-016-669-080		C-CAP,S 0.1-25 K B<8LH>
C509	87-016-669-080		C-CAP,S 0.1-25 K B<8LH>
C510	87-010-184-080		CHIP CAPACITOR 3300P-50<8LH>
C511	87-010-177-080		C-CAP,S 820P-50 SL<8LH>
C512	87-016-460-080		C-CAP,S 0.22-16 K B<8LH>
C513	87-010-544-080		CAP, ELECT 0.1-50V<8LH>
C514	87-010-374-080		CAP, ELECT 47-10V<8LH>
C515	87-010-401-080		CAP, ELECT 1-50 M<8LH>
C516	87-010-401-080		CAP, ELECT 1-50 M<8LH>
C517	87-010-183-080		C-CAP,S 2700P-50 B<8LH>
C518	87-010-183-080		C-CAP,S 2700P-50 B<8LH>
C531	87-010-405-080		CAP, ELECT 10-50 M<8LH>
C532	87-010-196-080		CHIP CAPACITOR,0.1-25<8LH>
C533	87-010-196-080		CHIP CAPACITOR,0.1-25<8LH>
C534	87-012-156-080		C-CAP,S 220P-50 CH<8LH>
C535	87-010-178-080		CHIP CAP 1000P-50<8LH>
C536	87-010-196-080		CHIP CAPACITOR,0.1-25
C537	87-010-318-080		C-CAP,S 47P-50 CH<8LH>
C538	87-010-318-080		C-CAP,S 47P-50 CH<8LH>
C539	87-010-318-080		C-CAP,S 47P-50 CH<8LH>
C541	87-010-178-080		CHIP CAP 1000P-50<8LH>
C611	87-010-956-080		CHIP-CAP,S 0.068-25B
C612	87-010-369-080		C-CAP,S 0.033-25 K B
C613	87-010-190-080		S CHIP F 0.01-50
C614	87-016-669-080		C-CAP,S 0.1-25 K B
C616	87-010-185-080		C-CAP,S 3900P-50 K B
C617	87-010-194-080		CAP, CHIP 0.047-25ZF
C618	87-010-401-080		CAP, ELECT 1-50V
C619	87-010-263-080		CAP, ELECT 100-10V
C620	87-016-669-080		C-CAP,S 0.1-25 K B
C621	87-010-197-080		CAP, CHIP 0.01-25 KB
C623	87-010-401-080		CAP, ELECT 1-50V
C624	87-010-401-080		CAP, ELECT 1-50V
C626	87-A11-590-080		CAP, CHIP 0.047-16 KB
C627	87-010-400-080		CAP, ELECT 0.47-50V
C628	87-010-400-080		CAP, ELECT 0.47-50V
C629	87-A11-590-080		CAP, CHIP 0.047-16 KB
C630	87-010-263-080		CAP, ELECT 100-10V
C631	87-010-185-080		C-CAP,S 3900P-50 K B
C632	87-010-185-080		C-CAP,S 3900P-50 K B
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-A10-307-080		CAP-M,S 0.1-50
C636	87-A10-307-080		CAP-M,S 0.1-50
C637	87-A10-307-080		CAP-M,S 0.1-50
C638	87-A10-307-080		CAP-M,S 0.1-50
C639	87-010-405-080		CAP, ELECT 10-50V
C644	87-010-401-080		CAP, ELECT 1-50V
C671	87-010-322-080		C-CAP,S 100P-50 CH
C672	87-010-322-080		C-CAP,S 100P-50 CH
C673	87-010-190-080		C-CAP,S 0.01-50 ZF
C679	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
C680	87-010-190-080		C-CAP,S 0.01-50 ZF
C682	87-010-196-080		CHIP CAPACITOR,0.1-25 ZF
C771	87-010-263-080		CAP, ELECT 100-10V
C772	87-010-197-080		CAP, CHIP 0.01-25KB
C782	87-010-197-080		CAP, CHIP 0.01-25KB
C783	87-010-197-080		CAP, CHIP 0.01-25KB
C784	87-010-197-080		CAP, CHIP 0.01-25KB
C785	87-010-197-080		CAP, CHIP 0.01-25KB
C786	87-010-197-080		CAP, CHIP 0.01-25KB
C788	87-010-149-080		C-CAP,S 5P-50 CH
C789	87-A12-052-080		C-CAP,S 0.033-25 J B
C790	87-A12-052-080		C-CAP,S 0.033-25 J B
C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C792	87-010-197-080		CAP, CHIP 0.01-25KB
C793	87-010-404-080		CAP, ELECT 4.7-50V
C795	87-010-197-080		CAP, CHIP 0.01-25KB
C796	87-010-197-080		CAP, CHIP 0.01-25KB
C797	87-010-405-080		CAP, ELECT 10-50V
C798	87-010-197-080		CAP, CHIP 0.01-25KB
C799	87-010-407-080		CAP, ELECT 33-50V
C800	87-010-194-080		CAP, CHIP 0.047-25ZF
C801	87-010-403-080		CAP, ELECT 3.3-50V
C802	87-010-194-080		CAP, CHIP 0.047-25 ZF
C803	87-010-198-080		CAP, CHIP 0.022-25KB
C804	87-010-263-080		CAP, ELECT 100-10V
C807	87-010-400-080		CAP, ELECT 0.47-50V
C808	87-010-401-080		CAP, ELECT 1-50V
C809	87-010-401-080		CAP, ELECT 1-50V
C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C811	87-010-403-080		CAP, ELECT 3.3-50V
C812	87-010-403-080		CAP, ELECT 3.3-50V
C814	87-010-197-080		CAP, CHIP 0.01-25
C815	87-010-403-080		CAP, ELECT 3.3-50V
C816	87-010-403-080		CAP, ELECT 3.3-50V
C819	87-010-179-080		CAP,CHIP S 1200P-50
C820	87-010-179-080		CAP,CHIP S 1200P-50
C821	87-010-405-080		CAP, ELECT 10-50V
C823	87-010-177-080		CAP, CHIP 820P-50 J SL
C824	87-010-405-080		CAP, ELECT 10-50
C825	87-010-596-080		CAP, S 0.047-16
C842	87-010-197-080		CAP, CHIP 0.01-25 KB
C844	87-010-197-080		CAP, CHIP 0.01-25 KB
C850	87-010-260-080		CAP, ELECT 47-25V
C851	87-010-197-080		CAP, CHIP 0.01-25 KB
C852	87-010-197-080		CAP, CHIP 0.01-25 KB
C853	87-010-197-080		CAP, CHIP 0.01-25 KB
C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C860	87-010-197-080		CAP, CHIP 0.01-25
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-010-152-080		C-CAP,S 8P-50 CH
C963	87-015-785-080		CHIP CAPACITOR, 0.1-25ZF
C971	87-010-381-080		CAP, ELECT 330-16V
C972	87-010-404-080		CAP, ELECT 4.7-50V
C973	87-010-197-080		CAP, CHIP 0.01-25KB
C974	87-010-197-080		CAP, CHIP 0.01-25KB
C979	87-010-322-080		C-CAP,S 100P-50 CH
C981	87-010-260-080		CAP, ELECT 47-25V
C982	87-010-196-080		CHIP CAPACITOR,0.1-25
C983	87-010-197-080		CAP, CHIP 0.01-25KB

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C984	87-010-197-080		CAP, CHIP 0.01-25KB
C987	87-010-197-080		CAP, CHIP 0.01-25KB
C991	87-010-312-080		C-CAP,S 15P-50 CH
C992	87-010-312-080		C-CAP,S 15P-50 CH
C993	87-010-178-080		CHIP CAP 1000P-50
C995	87-010-178-080		CHIP CAP 1000P-50
C997	87-010-196-080		CHIP CAPACITOR,0.1-25
C998	87-010-260-080		CAP, ELECT 47-25V
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER, CFSFE10.7MA5
CF832	87-008-261-010		FILTER, CFSFE10.7MA5
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN91	87-A60-109-010		CONN,2P V S2M-2W
CN92	87-A60-109-010		CONN,2P V S2M-2W<7U>
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN301	87-A60-620-010		CONN,3P V 2MM JMT
CN351	87-A60-625-010		CONN,8P V 2MM JMT
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN602	87-A60-131-010		CONN,6P V FE
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)
CNA2	8A-NF6-640-010		CONN ASSY,3P (VM) ANF-6
FB501	87-008-372-080		FILTER, EMI BL OIRNI<8LH>
FC602	88-906-321-110		FF-CABLE,6P 1.25 320MM
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM
J101	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J102	87-A60-238-010		TERMINAL,SP 4P
J603	87-A60-926-010		JACK,PIN 4P R/W/TC58-118
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L101	87-A50-610-010		COIL,1UH K (MDEC)
L102	87-A50-610-010		COIL,1UH K (MDEC)
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
L801	87-A50-540-010		COIL,FM DET(TOK)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UH(CECS)
L832	87-005-847-080		COIL,2.2UH(CECS)
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
R117	87-010-805-080		C-CAP,S 1-16 ZF
R118	87-010-805-080		C-CAP,S 1-16 ZF
R161	87-A00-441-050		RES,270-1/2W J RP
R162	87-A00-441-050		RES,270-1/2W J RP
R163	87-A00-441-050		RES,270-1/2W J RP
R164	87-A00-441-050		RES,270-1/2W J RP
R790	87-010-197-080		C-CAP,S 0.01-25 KB
R991	87-010-322-080		C-CAP,S 100P-50 J CH
R993	87-010-322-080		C-CAP,S 100P-50 J CH
R995	87-010-322-080		C-CAP,S 100P-50 J CH
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

MICON C.B

C101	87-010-498-040		CAP,E 10-16 GAS
C102	87-010-194-080		CAP, CHIP 0.047-25
C103	87-010-194-080		CAP, CHIP 0.047-25
C105	87-A11-242-040		CAP,E 220-10 M 5L SRM
C106	87-A11-242-040		CAP,E 220-10 M 5L SRM
C107	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-016-460-080		C-CAP,S 0.22-16 K B
C112	87-010-493-040		CAP,E 0.47-50 GAS
C113	87-010-178-080		CHIP CAP 1000P-50
C114	87-018-209-080		CAP, TC U 0.01-50
C116	87-010-196-080		CHIP CAPACITOR,0.1-25
C122	87-012-369-080		C-CAP,S 0.047-50F
C123	87-010-408-040		CAP,E 47-50 SME
C124	87-010-421-040		CAP,E 4.7-50 5L
C125	87-010-421-040		CAP,E 4.7-50 5L
C132	87-012-156-080		C-CAP,S 220P-50 CH
C133	87-010-316-080		C-CAP,S 33P-50 CH
C135	87-018-209-080		CAP, TC U 0.01-50
C137	87-010-313-080		CAP, CHIP 18P-50
C138	87-010-196-080		CHIP CAPACITOR,0.1-25
C171	87-010-213-080		C-CAP,S 0.015-50 B
C172	87-010-183-080		C-CAP,S 2700P-50 B
C188	87-010-194-080		CAP, CHIP 0.047-25
C193	87-010-197-080		CAP, CHIP 0.01 DM
C251	87-010-196-080		CHIP CAPACITOR,0.1-25
C252	87-012-156-080		C-CAP,S 220P-50 CH
C253	87-010-322-080		C-CAP,S 100P-50 CH
C301	87-012-358-080		C-CAP,S 0.47-10 F Z
C302	87-010-171-080		C-CAP,S 270P-50 SL
C303	87-012-358-080		C-CAP,S 0.47-10 F Z
C304	87-012-358-080		C-CAP,S 0.47-10 F Z
C305	87-010-196-080		CHIP CAPACITOR,0.1-25
C306	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-405-040		CAP,E 10-50
C411	87-012-157-080		C-CAP,S 330P-50 CH
C412	87-010-405-040		CAP,E 10-50
C421	87-010-197-080		CAP, CHIP 0.01-25
C422	87-010-182-080		C-CAP,S 2200P-50 B
C940	87-012-145-080		CAP, CHIP S 270P-50 J CH
C941	87-012-145-080		CAP, CHIP S 270P CH
C942	87-012-145-080		CAP, CHIP S 270P CH
C943	87-012-145-080		CAP, CHIP S 270P CH
C944	87-012-145-080		CAP, CHIP S 270P CH
C945	87-012-145-080		CAP, CHIP S 270P CH
C946	87-012-145-080		CAP, CHIP S 270P CH
C947	87-012-145-080		CAP, CHIP S 270P CH
C948	87-012-145-080		CAP, CHIP S 270P CH
C949	87-012-145-080		CAP, CHIP S 270P CH
C950	87-012-145-080		CAP, CHIP S 270P CH
C951	87-012-145-080		CAP, CHIP S 270P CH
C952	87-012-145-080		CAP, CHIP S 270P CH
C962	87-012-155-080		C-CAP 180P-50CH<8LH>
C963	87-010-297-080		C-CAP,S 100P-50 CH<8LH>
C967	87-010-197-080		CAP, CHIP 0.01 DM<8LH>
C968	87-016-044-040		CAP,E 100-16 GAS<8LH>
C969	87-010-196-080		CHIP CAPACITOR,0.1-25<8LH>
C972	87-015-629-080		CAP CHIP 2200P-50<8LH>
C973	87-012-156-080		C-CAP,S 220P-50 CH<8LH>
C974	87-015-682-040		CAP,E 22-16 7L<8LH>
C975	87-010-071-040		CAP,E 1-50 M 5L SRE<8LH>
C976	87-010-060-040		CAP,E 100-16<8LH>
C977	87-010-197-080		CAP, CHIP 0.01-25<8LH>
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN102	87-A60-162-010		CONN,14P H FE
CN103	87-A60-166-010		CONN,18P H FE
CN104	87-A60-163-010		CONN,15P H FE
CN301	87-A60-156-010		CONN,8P H FE
CNA105	8A-MA3-654-010		CONN ASSY,2P V 200MM
FB001	87-A90-896-080		F-BEAD,035600STY7
FC102	88-914-231-110		FF-CABLE,14P 1.25
FC103	88-918-231-110		FF-CABLE,18P 1.25
FC104	88-915-151-110		FF-CABLE,15P 1.25 150MM
FL101	8A-MA3-651-010		FL,BJ751GNK
L101	87-A50-333-010		COIL,OSC 9.43MHZ
L961	87-A50-093-010		COIL,CLOCK 5.76MHZ<8LH>
LED131	87-A40-317-080		LED,SLR-342VCT31 RED
LED201	87-A40-496-040		LED,SLR-342PCT31 GRN
LED202	87-A40-317-080		LED,SLR-342VCT31 RED
LED203	87-A40-496-040		LED,SLR-342PCT31 GRN
LED205	87-A40-317-080		LED,SLR-342VCT31 RED
LED206	87-A40-496-040		LED,SLR-342PCT31 GRN
LED207	87-A40-317-080		LED,SLR-342VCT31 RED
LED209	87-A40-496-040		LED,SLR-342PCT31 GRN
LED210	87-A40-317-080		LED,SLR-342VCT31 RED

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED211	87-A40-496-040		LED,SLR-342PCT31 GRN
LED212	87-A40-317-080		LED,SLR-342VCT31 RED
LED213	87-A40-317-080		LED,SLR-342VCT31 RED
LED214	87-A40-317-080		LED,SLR-342VCT31 RED
S401	87-A90-095-080		SW,TACT EVQ11G04M
S402	87-A90-095-080		SW,TACT EVQ11G04M
S403	87-A90-095-080		SW,TACT EVQ11G04M
S404	87-A90-095-080		SW,TACT EVQ11G04M<8LH>
S405	87-A90-095-080		SW,TACT EVQ11G04M
S421	87-A91-625-010		SW,RTRY EC12E24308-30MM
AMP IF C.B			
C3	87-010-186-080		CAP,CHIP 4700P-50<8LH>
C101	87-010-178-080		CHIP CAP 1000P-50
C102	87-010-178-080		CHIP CAP 1000P
C103	87-010-405-080		CAP, ELECT 10-50V
C104	87-010-405-080		CAP, ELECT 10-50V
C107	87-010-405-080		CAP, ELECT 10-50V<8LH>
C107	87-010-404-080		CAP, ELECT 4.7-50V<7U>
C108	87-010-405-080		CAP, ELECT 10-50V<8LH>
C108	87-010-404-080		CAP, ELECT 4.7-50V<7U>
C111	87-010-322-080		C-CAP,S 100P-50 CH<7U>
C112	87-010-322-080		C-CAP,S 100P-50 CH<7U>
C113	87-A10-812-080		C-CAP,S 220P-200 J CH<7U>
C113	87-010-260-080		CAP, ELECT 47-25V<8LH>
C114	87-A10-812-080		C-CAP,S 220P-200 J CH<7U>
C114	87-010-260-080		CAP, ELECT 47-25V<8LH>
C115	87-A10-119-080		CAP, ELECT 10-100 REA<8LH>
C116	87-A10-119-080		CAP, ELECT 10-100 REA<8LH>
C119	87-010-197-080		CAP, CHIP 0.01-25
C120	87-010-197-080		CAP, CHIP 0.01-25
C121	87-010-260-080		CAP, ELECT 47-25V<7U>
C122	87-010-260-080		CAP, ELECT 47-25V<7U>
C133	87-010-186-080		CAP,CHIP 4700P-50<8LH>
C173	87-010-186-080		CAP,CHIP 4700P-50<7U>
C174	87-010-186-080		CAP,CHIP 4700P-50<7U>
C203	87-A10-300-080		CAP,M 0.027-50 J
C204	87-A10-300-080		CAP,M 0.027-50 J
C205	87-010-177-080		C-CAP,S 820P-50 SL
C206	87-010-177-080		C-CAP,S 820P-50 SL
C207	87-010-403-080		CAP, ELECT 3.3-50V
C208	87-010-403-080		CAP, ELECT 3.3-50V
C209	87-010-184-080		CHIP CAPACITOR 3300P-50<7U>
C210	87-010-184-080		CHIP CAPACITOR 3300P-50<7U>
C211	87-010-403-080		CAP, ELECT 3.3-50V
C212	87-010-403-080		CAP, ELECT 3.3-50V
C215	87-012-156-080		C-CAP,S 220P-50
C216	87-012-156-080		C-CAP,S 220P-50
C217	87-010-260-080		CAP, ELECT 47-25V
C218	87-010-260-080		CAP, ELECT 47-25V
C221	87-010-405-080		CAP, ELECT 10-50V
C222	87-010-405-080		CAP, ELECT 10-50V
C223	87-010-197-080		CAP, CHIP 0.01-25
C224	87-010-197-080		CAP, CHIP 0.01-25
C249	87-012-368-080		CHIP CAPACITOR 0.1-50 ZF<7U>
C251	87-010-993-080		C-CAP,S 0.056-25 B
C252	87-010-196-080		CHIP CAPACITOR,0.1-25
C253	87-010-196-080		CHIP CAPACITOR,0.1-25
C254	87-010-993-080		C-CAP,S 0.056-25 B
C255	87-010-190-080		S CHIP F 0.01-50
C256	87-010-190-080		S CHIP F 0.01-50
C291	87-010-374-080		CAP, ELECT 47-10V<8LH>
C402	87-010-196-080		CHIP CAPACITOR,0.1-25<7U>
C413	87-A10-119-080		CAP,E 10-100 REA<7U>
C414	87-A10-119-080		CAP,E 10-100 REA<7U>
CNA101	8A-NF8-656-010		CONN ASSY,5P TID-A 400<8LH>
CNA103	8A-NF8-656-010		CONN ASSY,5P TID-A 400<7U>
CON101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CON102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
J201	87-A61-148-010		JACK,PIN 4P R/W BLUE
L251	87-A50-610-010		COIL,1UH-S
L252	87-A50-610-010		COIL,1UH-S
R131	87-A00-262-080		RES,M/F 0.15-2W J<8LH>
R132	87-A00-262-080		RES,M/F 0.15-2W J<8LH>
R161	87-A00-418-010		RES,M/F 0.15-3W J<7U>
R162	87-A00-418-010		RES,M/F 0.15-3W J<7U>
R165	87-A00-418-010		RES,M/F 0.15-3W J<7U>
R166	87-A00-418-010		RES,M/F 0.15-3W J<7U>
R231	87-A00-258-080		RES,M/F 0.22-1W J
R232	87-A00-258-080		RES,M/F 0.22-1W J
R243	87-A00-258-080		RES,M/F 0.22-1W J<7U>
R244	87-A00-258-080		RES,M/F 0.22-1W J<7U>
RY201	87-A91-686-010		RELAY, G5PA-28(OMRON)<7U>
TH101	87-A91-042-080		C-THMS,100K 55001<7U>
TH102	87-A91-042-080		C-THMS,100K 55001<7U>
WH101	87-A90-459-010		HLDR 2.5-5P
WH103	87-A90-459-010		HLDR,WIRE 2.5-5P<7U>
CNTL C.B			
C602	87-010-069-040		CAP,E 0.33-50
C603	87-010-319-080		C-CAP,S 56P-50 CH
C604	87-010-178-080		CHIP CAP 1000P-50
C606	87-015-785-080		CHIP CAPACITOR, 0.1-25
C607	87-010-060-040		CAP,E 100-16
C611	87-010-186-080		CAP,CHIP 4700P-50
C612	87-015-699-040		CAP,E 10-50
C621	87-015-691-040		CAP,E0.1-50 SRA<7U>
C622	87-010-544-040		CAP,E 0.1-50 SME<7U>
C623	87-010-178-080		CHIP CAP 1000P<7U>
C624	87-010-319-080		C-CAP,S 56P-50 CH<7U>
C624	87-010-163-080		C-CAP,S 56P-50 SL<7U>
C625	87-010-405-040		CAP,E 10-50<7U>
C651	87-010-182-080		C-CAP,S 2200P-50 B
C652	87-010-197-080		CAP, CHIP 0.01-25
C661	87-010-196-080		CHIP CAPACITOR,0.1-25
C662	87-010-196-080		CHIP CAPACITOR,0.1-25
C663	87-012-156-080		C-CAP,S 220P-50 CH
C664	87-012-156-080		C-CAP,S 220P-50 CH
C686	87-010-196-080		CHIP CAPACITOR,0.1-25
C692	87-010-196-080		CHIP CAPACITOR,0.1-25
C846	87-010-196-080		CHIP CAPACITOR,0.1-25
CN661	87-A60-166-010		CONN,18P H FE
CNA602	8A-MA3-655-010		CONN ASSY,2P V 60MM
LED671	87-A40-317-080		LED,SLR-342VCT31 RED
LED672	87-A40-317-080		LED,SLR-342VCT31 RED
LED673	87-A40-317-080		LED,SLR-342VCT31 RED
LED674	87-A40-317-080		LED,SLR-342VCT31 RED
LED675	87-A40-317-080		LED,SLR-342VCT31 RED
LED677	87-A40-317-080		LED,SLR-342VCT31 RED
LED678	87-A40-317-080		LED,SLR-342VCT31 RED
LED679	87-A40-317-080		LED,SLR-342VCT31 RED
LED680	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED681	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED682	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED683	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED684	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED685	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED686	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
LED692	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
S651	87-A91-624-010		SW,RTRY EC12E1240405-20MM
S805	87-A90-095-080		SW,TACT EVQ11G04M<8LH>
S806	87-A90-095-080		SW,TACT EVQ11G04M
S807	87-A90-095-080		SW,TACT EVQ11G04M
S808	87-A90-095-080		SW,TACT EVQ11G04M
S809	87-A90-095-080		SW,TACT EVQ11G04M
S810	87-A90-095-080		SW,TACT EVQ11G04M
S811	87-A90-095-080		SW,TACT EVQ11G04M
S812	87-A90-095-080		SW,TACT EVQ11G04M

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S813	87-A90-095-080		SW,TACT EVQ11G04M
S815	87-A90-095-080		SW,TACT EVQ11G04M
S816	87-A90-095-080		SW,TACT EVQ11G04M
S817	87-A90-095-080		SW,TACT EVQ11G04M<8LH>
S821	87-A90-095-080		SW,TACT EVQ11G04M
S822	87-A90-095-080		SW,TACT EVQ11G04M
S823	87-A90-095-080		SW,TACT EVQ11G04M
S824	87-A90-095-080		SW,TACT EVQ11G04M
S825	87-A90-095-080		SW,TACT EVQ11G04M
S826	87-A90-095-080		SW,TACT EVQ11G04M
S827	87-A90-095-080		SW,TACT EVQ11G04M
S828	87-A90-095-080		SW,TACT EVQ11G04M
S829	87-A90-095-080		SW,TACT EVQ11G04M
S830	87-A90-095-080		SW,TACT EVQ11G04M
S831	87-A90-095-080		SW,TACT EVQ11G04M
S832	87-A90-095-080		SW,TACT EVQ11G04M<8LH>
S833	87-A90-095-080		SW,TACT EVQ11G04M<8LH>
S834	87-A90-095-080		SW,TACT EVQ11G04M<8LH>
S835	87-A90-095-080		SW,TACT EVQ11G04M<8LH>
S842	87-A90-095-080		SW,TACT EVQ11G04M
S843	87-A90-095-080		SW,TACT EVQ11G04M
S844	87-A90-095-080		SW,TACT EVQ11G04M
S845	87-A90-095-080		SW,TACT EVQ11G04M
S846	87-A90-095-080		SW,TACT EVQ11G04M
S847	87-A90-095-080		SW,TACT EVQ11G04M
S848	87-A90-095-080		SW,TACT EVQ11G04M
S849	87-A90-095-080		SW,TACT EVQ11G04M
S850	87-A90-095-080		SW,TACT EVQ11G04M
S851	87-A90-095-080		SW,TACT EVQ11G04M
VR621	8Z-MA3-603-010		VR,SL 10KB RS15111-20<7U>
MIC C.B			
C601	87-010-196-080		CHIP CAPACITOR,0.1-25
CN601	87-A60-619-010		CONNECTOR 2P V 2MM
FB603	83-XM1-617-080		C-COIL,BK 2125HM 601
J601	87-099-659-010		JACK,6.3 JY-6314-01130
J602	87-099-659-010		JACK,6.3 JY-6314-01130
KEY CD C.B			
CN701	87-A60-156-010		CONN,8P H FE
FC701	88-908-231-110		FF-CABLE,8P 1.25
LED771	87-A40-317-080		LED,SLR-342VCT31 RED
LED772	87-A40-317-080		LED,SLR-342VCT31 RED
LED773	87-A40-317-080		LED,SLR-342VCT31 RED
LED774	87-A40-317-080		LED,SLR-342VCT31 RED
LED775	87-A40-317-080		LED,SLR-342VCT31 RED
S751	87-A90-095-080		SW,TACT EVQ11G04M
S752	87-A90-095-080		SW,TACT EVQ11G04M
S753	87-A90-095-080		SW,TACT EVQ11G04M
S754	87-A90-095-080		SW,TACT EVQ11G04M
S755	87-A90-095-080		SW,TACT EVQ11G04M
S756	87-A90-095-080		SW,TACT EVQ11G04M
S757	87-A90-095-080		SW,TACT EVQ11G04M
DK1 LED C.B			
LED724	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED725	87-A40-589-040		LED,SLR-56VCT31 RED
LED726	87-A40-619-040		LED,SLR-56PT-T31-W GRN
DK2 LED C.B			
CN721	87-A60-619-010		CONNECTOR 2P V 2MM
CNA722	8A-MA3-653-010		CONN ASSY,2P V 100MM
LED721	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED722	87-A40-589-040		LED,SLR-56VCT31 RED
LED723	87-A40-619-040		LED,SLR-56PT-T31-W GRN
VM C.B			

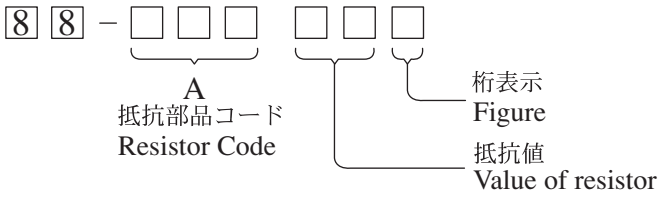
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
PT C.B			
C1	87-A11-148-080		CAP,TC U 0.1-50 Z F
C2	87-A11-148-080		CAP,TC U 0.1-50 Z F
C3	87-A11-148-080		CAP,TC U 0.1-50 Z F
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F
C6	87-A11-148-080		CAP,TC U 0.1-50 Z F
C7	87-A11-148-080		CAP,TC U 0.1-50 Z F
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F
C101	87-010-387-080		CAP,E 470-25 SME
C103	87-A11-148-080		CAP,TC U 0.1-50 Z F
C104	87-A11-148-080		CAP,TC U 0.1-50 Z F
C105	87-A11-148-080		CAP,TC U 0.1-50 Z F
C106	87-A11-148-080		CAP,TC U 0.1-50 Z F
C107	87-A11-148-080		CAP,TC U 0.1-50 Z F
C108	87-A11-148-080		CAP,TC U 0.1-50 Z F
C109	87-A11-148-080		CAP,TC U 0.1-50 Z F
C110	87-A11-148-080		CAP,TC U 0.1-50 Z F
C111	87-010-917-000		CAP,E 3300-50 M SMG
C112	87-010-917-000		CAP,E 3300-50 M SMG
C113	87-016-657-090		CAP,E 3300-71 M SMG<8LH>
C113	87-A10-231-090		CAP,E 3300-80<7U>
C114	87-016-657-090		CAP,E 3300-71 M SMG<8LH>
C114	87-A10-231-090		CAP,E 3300-80<7U>
C116	87-010-403-040		CAP,E 3.3-50 SME
CN1	87-A61-110-010		CONN,9P V TID-A
CN2	87-A61-108-010		CONN,5P V TID-A
⚠ F101	87-035-458-010		FUSE,4A 250V T W/C<8LH>
⚠ F101	87-035-493-010		FUSE,8A 125V<7U>
⚠ F102	87-035-458-010		FUSE,4A 250V T W/C<8LH>
⚠ FC101	87-033-213-080		CLAMP, FUSE
⚠ FC102	87-033-213-080		CLAMP, FUSE<8LH>
⚠ FC103	87-033-213-080		CLAMP, FUSE<8LH>
⚠ FC104	87-033-213-080		CLAMP, FUSE
⚠ PT1	8A-MA3-663-010		PT,AMA-3 LH<8LH>
⚠ PT1	8A-MA3-661-010		PT,AMA-3 U<7U>
⚠ PT2	8A-NF8-673-010		PT,SUB ANF-8 (H)KAMI<8LH>
⚠ PT2	8A-NF8-661-010		PT,SUB ANF-8 (U)<7U>
⚠ PR103	87-026-691-080		FUSE,10A 125V 251<7U>
⚠ PR103	87-026-682-080		PROTECTOR,10A 60V491<8LH>
⚠ PR106	87-026-691-080		FUSE,10A 125V 251<7U>
⚠ PR106	87-026-682-080		PROTECTOR 10A 49/SERIES 60V<8LH>
⚠ PR108	87-A91-276-080		FUSE,125MA 125V F 251<7U>
⚠ RY101	87-A91-300-010		RELAY,AC 12V-ALA2PF12<8LH>
⚠ RY102	87-A90-976-010		RELAY,AC12V SDT-S-112LMR<7U>
⚠ S101	87-A90-165-010		SW,SL 1-2-3 SWS2301<8LH>
⚠ T101	87-A60-317-010		TERMINAL, 1P MSC
⚠ T102	87-A60-317-010		TERMINAL, 1P MSC
DECK C.B			
CON502	87-099-756-010		CONN,15P 9604S F
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-626-010		SOL ASSY,27K
SOL2	82-ZM1-626-010		SOL ASSY,27K
SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
W1	82-ZM3-601-010		RBN-CORD,4P-75
HEAD-1 C.B			
	85-ZM3-601-010		PWB,FLEX I
CON301	85-MA2-615-010		CONN ASSY,3P-PH

HEAD-2 C.B

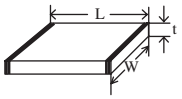
	85-ZM3-601-010	PWB,FLEX I
CON351	83-NEG-608-010	CONN ASSY,8P-RPB

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

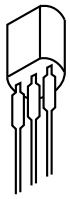
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

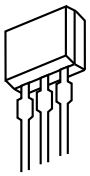


E C B

CD1585
CSA952
CSC4115
KTA1266
KTC3198
KTC3199

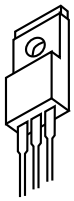
E C B

CC5551



E C B

2SB1237

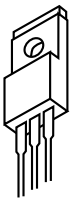


B C E

2SB1370
FN1016
FP1016

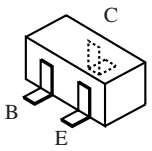
E C B

2SA933
DTC114ES



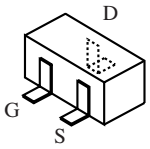
G D S

2SK3053

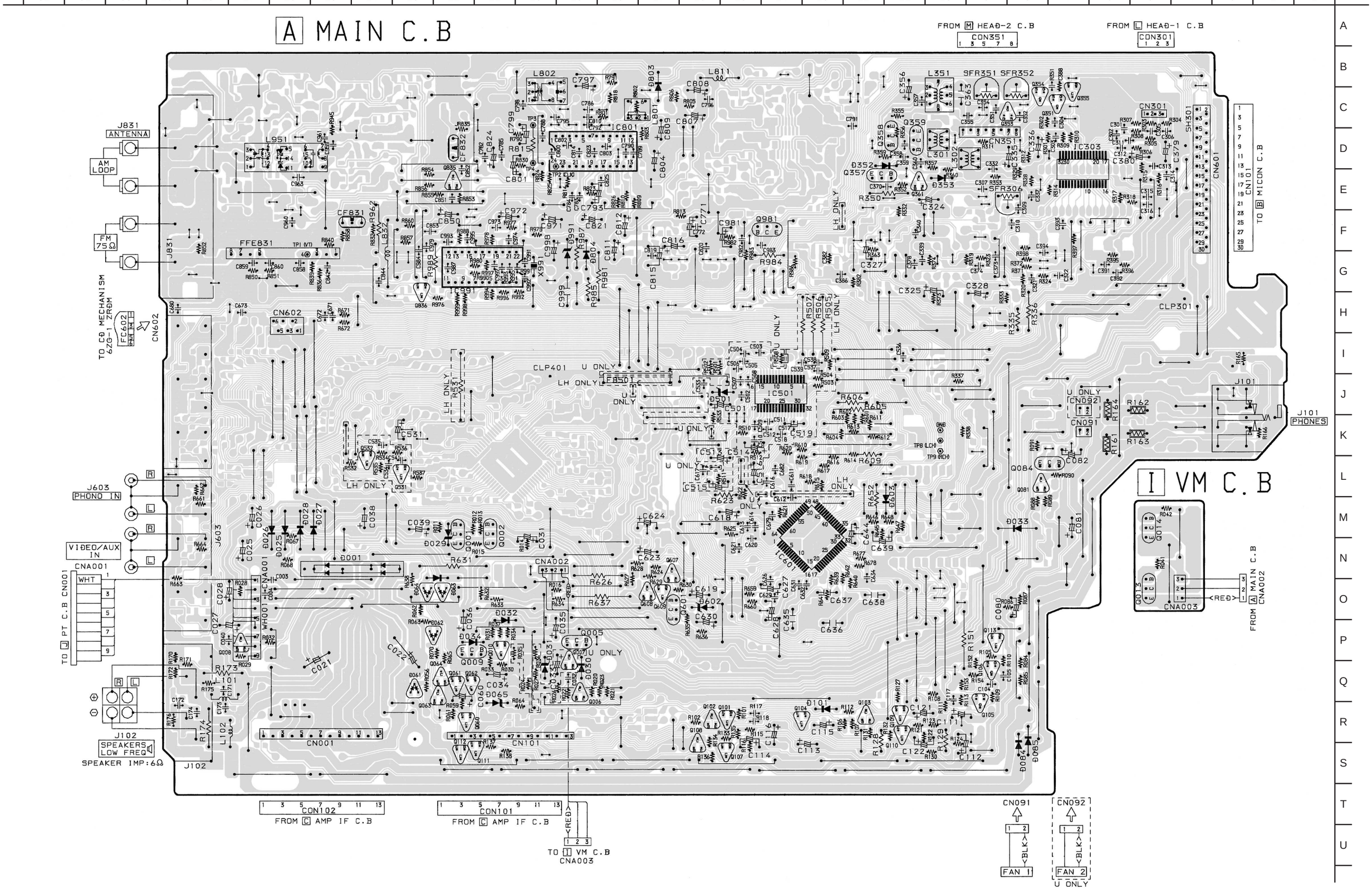


2SA1235
2SC2714
2SC3052
2SD1306
CMBT5401
CMBT5551

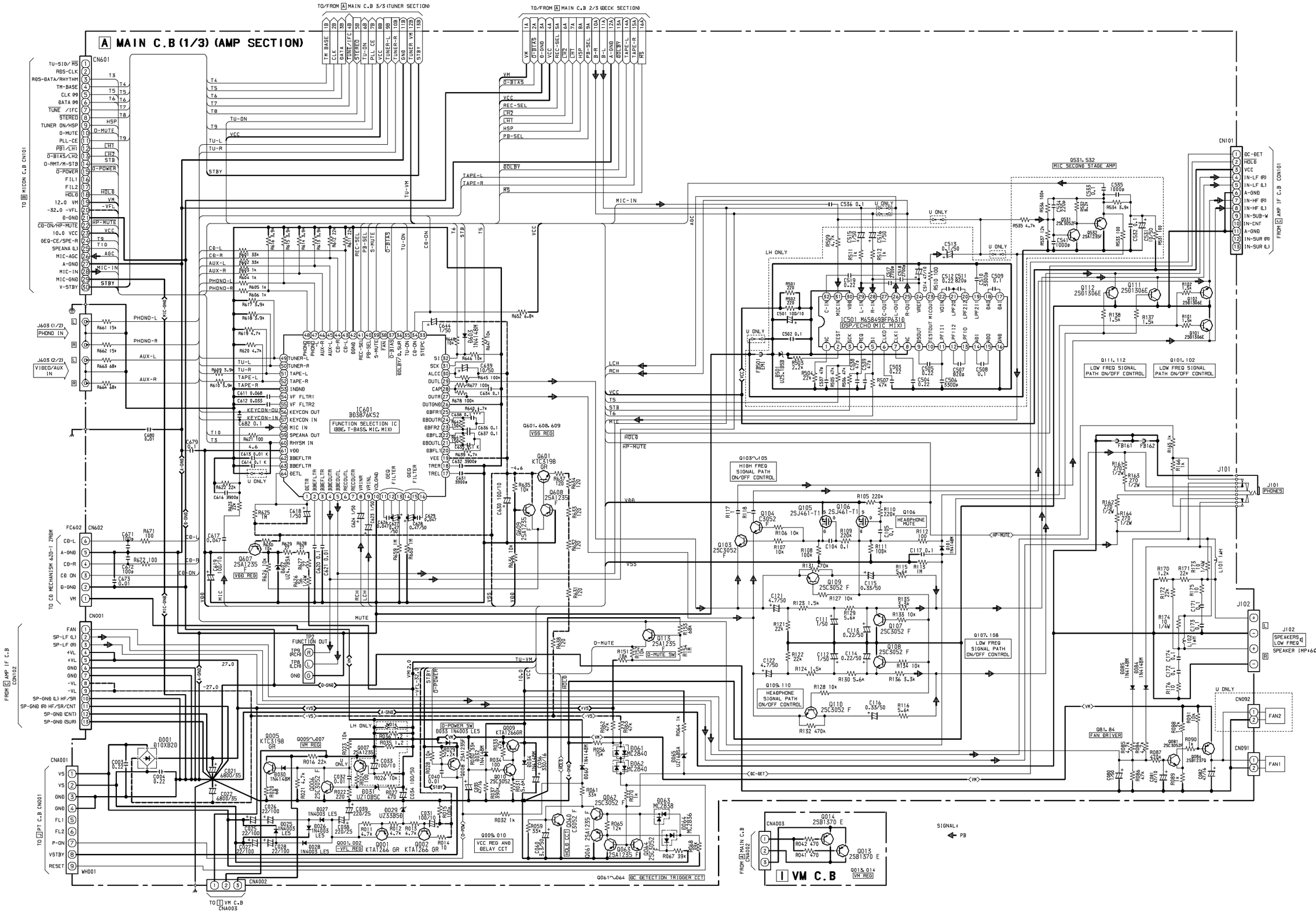
KRA102
KRA104
KRA107
KRC102
RT1N141C
RT1P141C



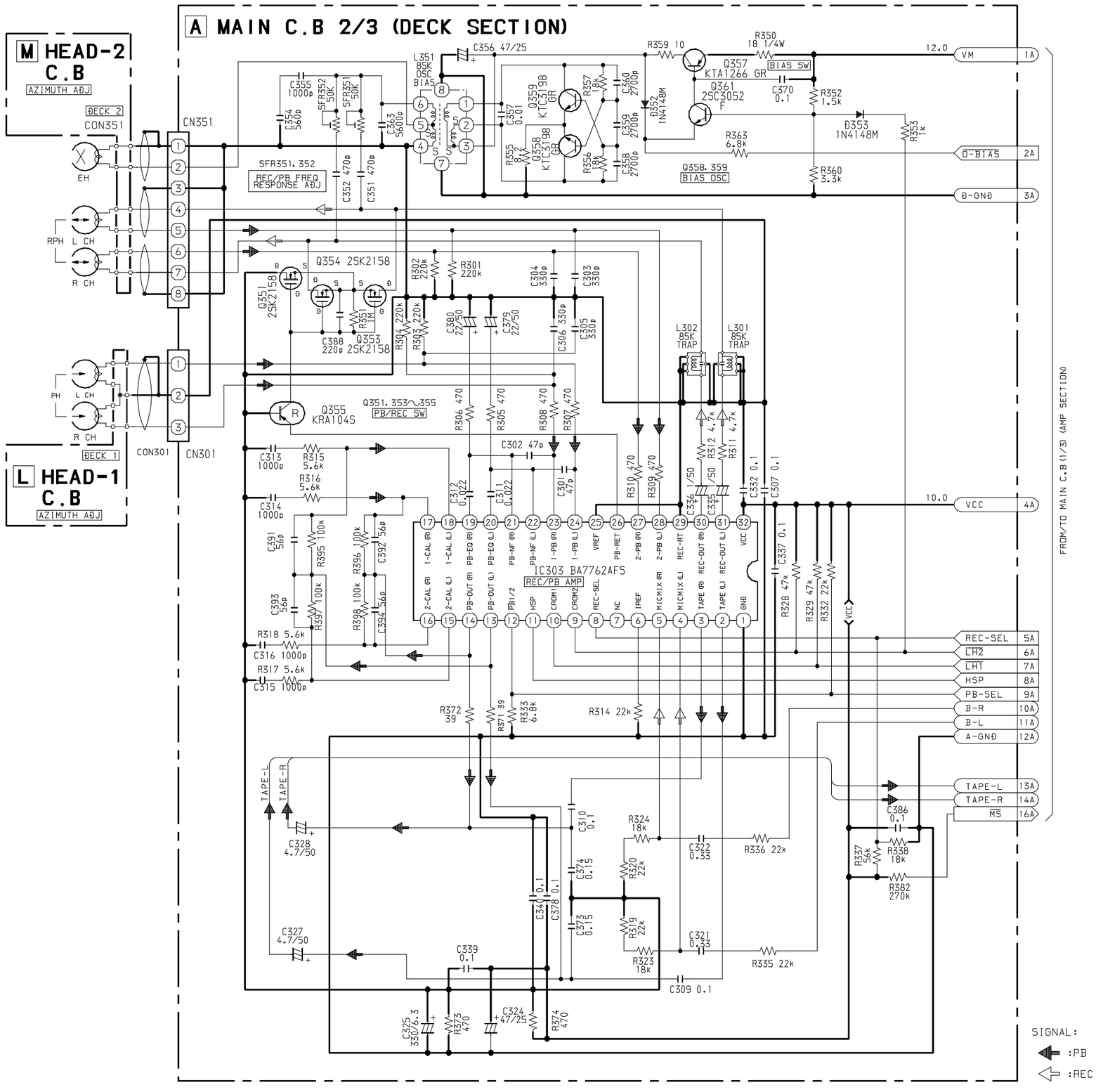
2SJ461-T1
2SK2158


A MAIN C.B
FROM M HEAD-2 C.B
CON351
FROM L HEAD-1 C.B
CON301
TO B MICON C.B
CN101
CN601
J831
ANTENNA
AM LOOP
FM 75Ω
TO C0 MECHANISM 6Z9-1 ZRDM
FC602
CN602
J603
PHONO IN
VIDEO/AUX IN
CNA001
TO J PT C.B CN001
J102
SPEAKERS LOW FREQ
SPEAKER IMP:6Ω
CN001
CN101
CON102
FROM C AMP IF C.B
CON101
FROM C AMP IF C.B
TO I VM C.B
CNA003
J101
PHONES
CLP301
CLP401
I VM C.B
CNA003
FROM A MAIN C.B
CNA002
CN091
CN092
FAN 1
FAN 2
U ONLY
LH ONLY

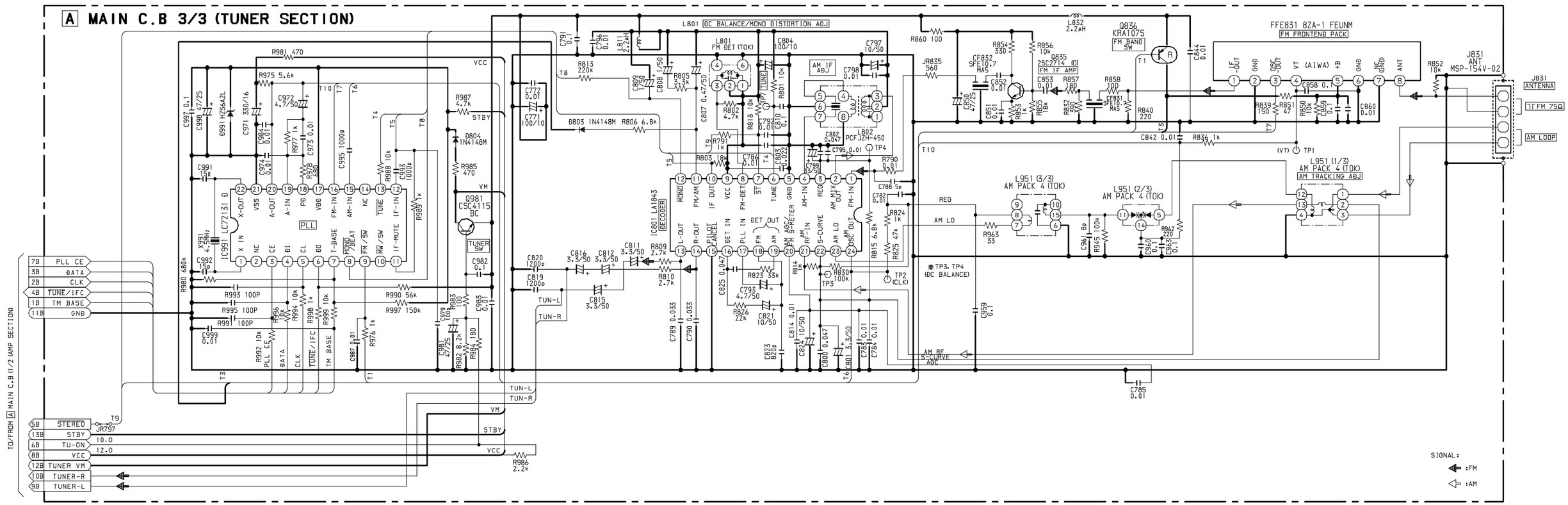
SCHEMATIC DIAGRAM - 1 (MAIN 1 / 3 <AMP> / VM)



SCHEMATIC DIAGRAM - 2 (MAIN 2 / 3 <DECK> / HEAD - 1 / HEAD - 2)

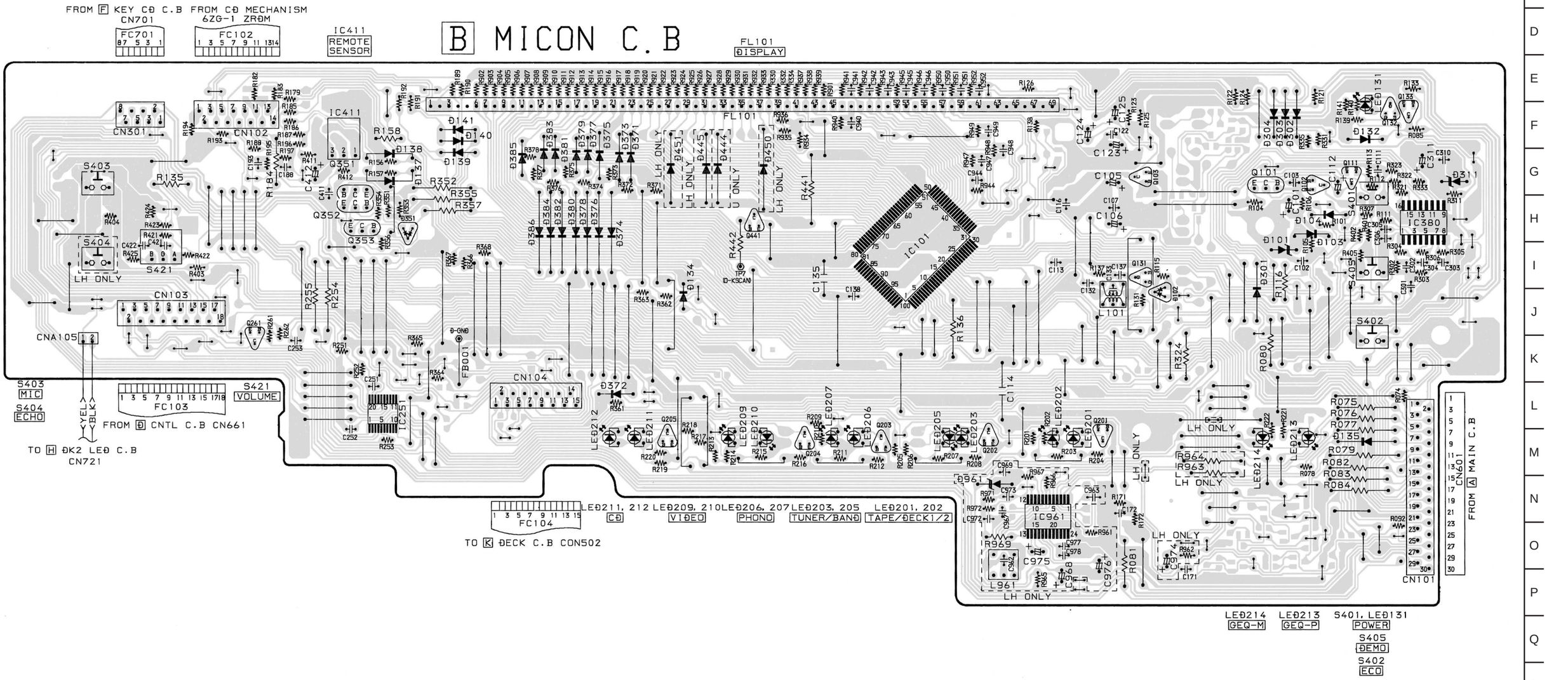


SCHEMATIC DIAGRAM - 3 (MAIN 3 / 3 <TUNER>)

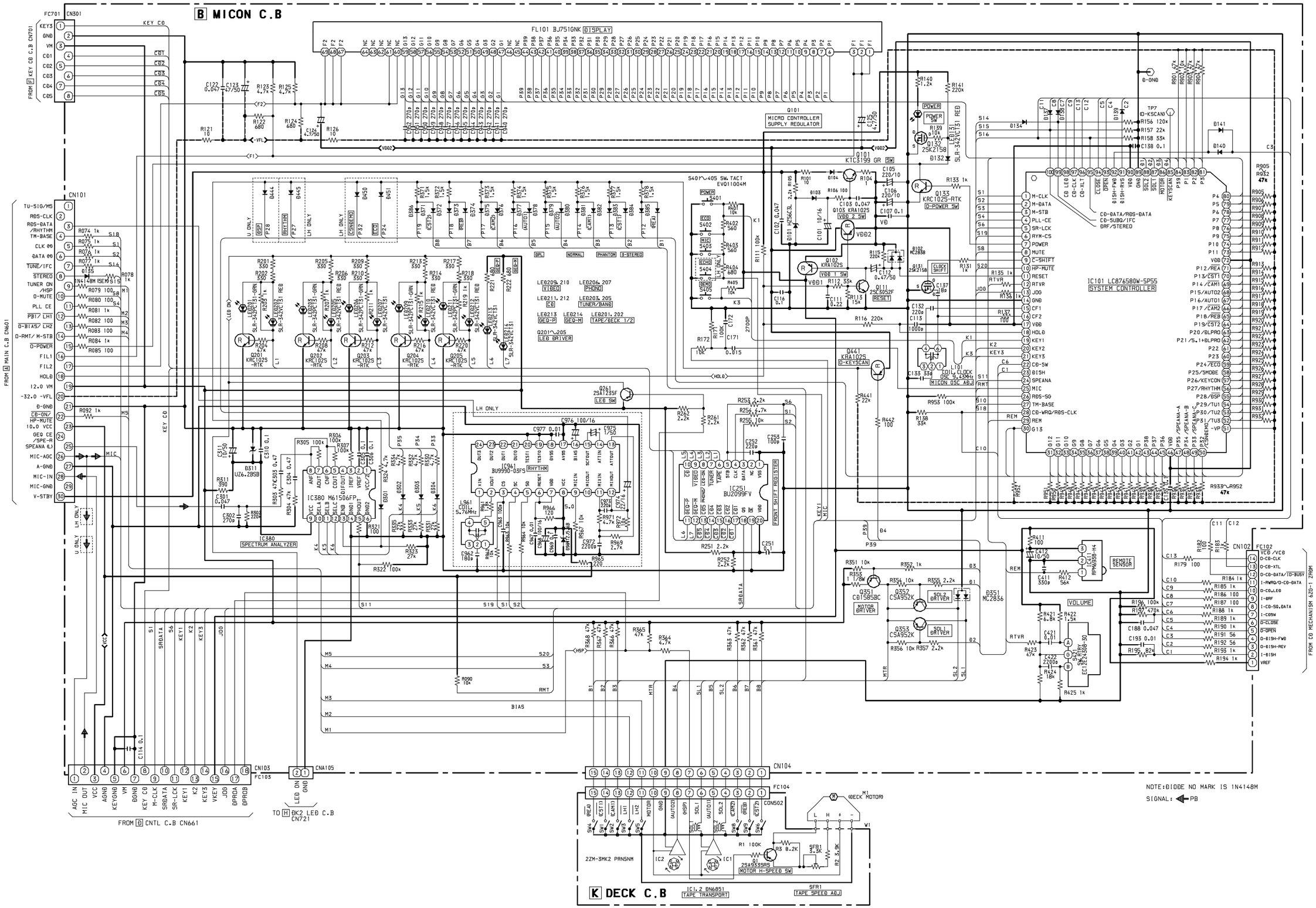


32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U



SCHEMATIC DIAGRAM - 4 (MICON / DECK)



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

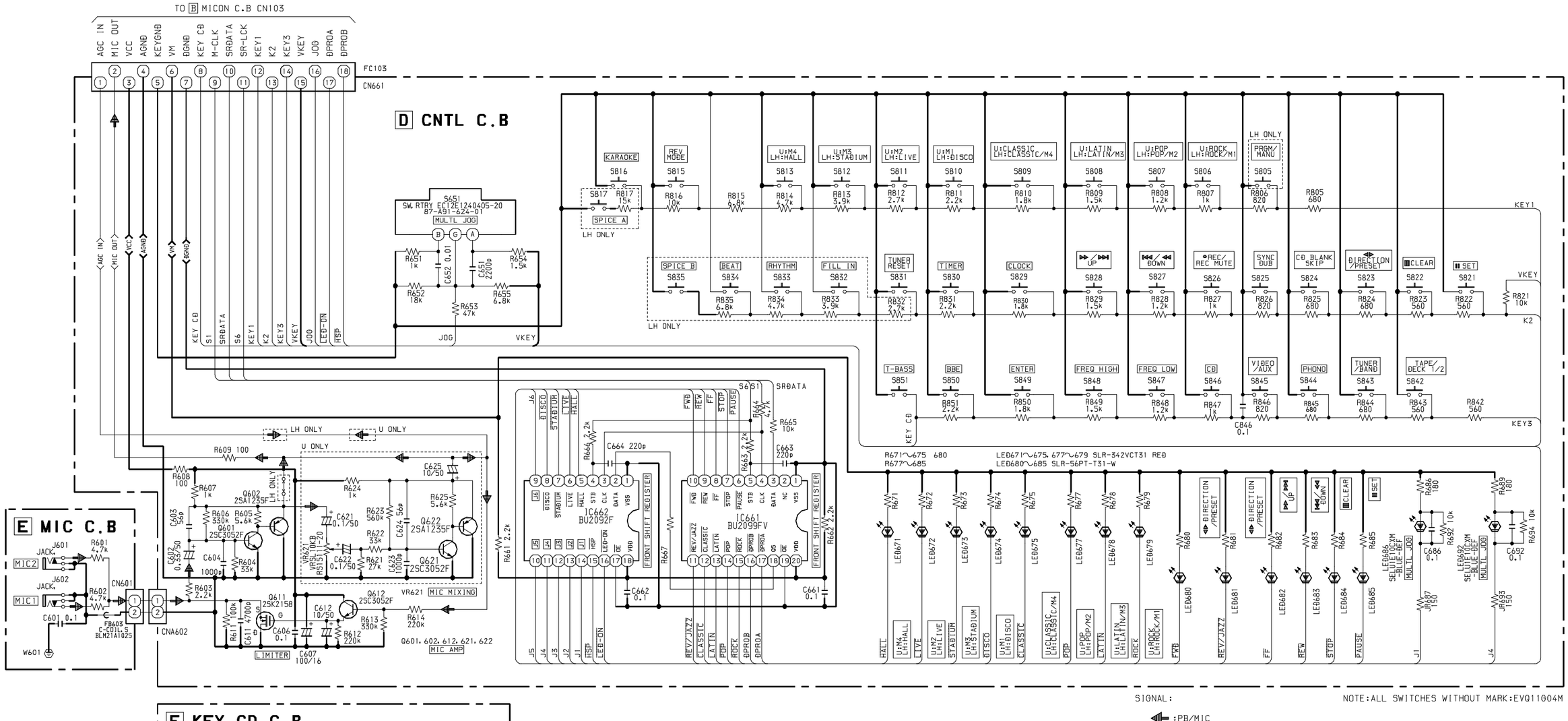
A B C D E F G H I J K L M N O P Q R S T U

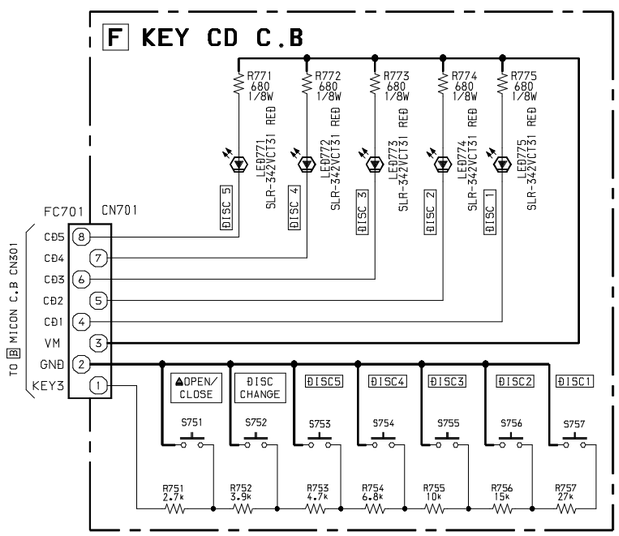
Đ CNTL C.B

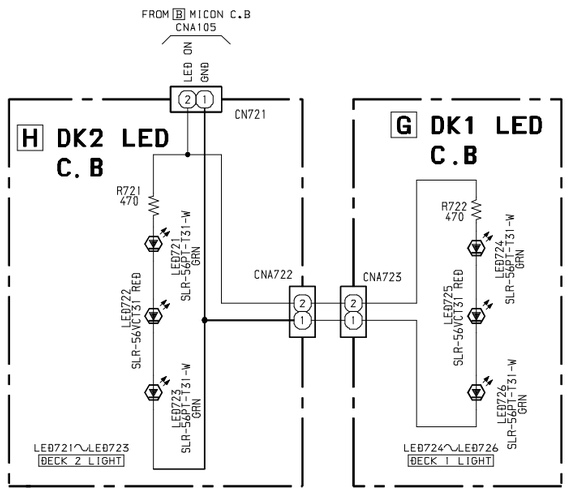
TO B MICON C.B CN103

S849 ENTER
S850 BBE
S851 T-BASS
S848 FREQ HIGH
S847 FREQ LOW
S651, LEĐ686, 692 MULTI JOG
S834 BEAT
S833 RHYTHM
S832 FILL IN
LH ONLY
VR621 MIC MIXING
U ONLY
S829 CLOCK
S830 TIMER
S831 TUNER RESET
S835 SPICE B
S817 SPICE A
LH ONLY
S846 CĐ
S828, LEĐ682 ▶▶/▶▶IUP
S845 VIĐEO/AUX
S823, LEĐ680, 681 ◀▶ĐIRECTION/PRESET
S827, LEĐ683 I◀◀/◀◀ĐOWN
S844 PHONO
S843 TUNER/BANĐ
S822, LEĐ684 ■CLEAR
S826 ●REC/REC MUTE
S816 KARAOKE
S842 TAPE/ĐECK1/2
S821, LEĐ685 IISET
S825 SYNCHRO ĐUB
S815 REV MOĐE
TO E MIC C.B CN601
S824 CĐ BLANK SKIP
S807, LEĐ677 U:POP LH:POP/M2
S806, LEĐ679 U:ROCK LH:ROCK/M1
S809, LEĐ675 U:CLASSIC LH:CLASSIC/M4
S808, LEĐ678 U:LATIN LH:LATIN/M3
S811, LEĐ672 U:M2 LH:LIVE
S805 PRGM/MANU
S810, LEĐ674 U:M1 LH:ĐISCO
S813, LEĐ671 U:M4 LH:HALL
S812, LEĐ673 U:M3 LH:STAĐIUM

SCHEMATIC DIAGRAM - 5 (CNTL / MIC / KEY CD / DK1 LED / DK2 LED)



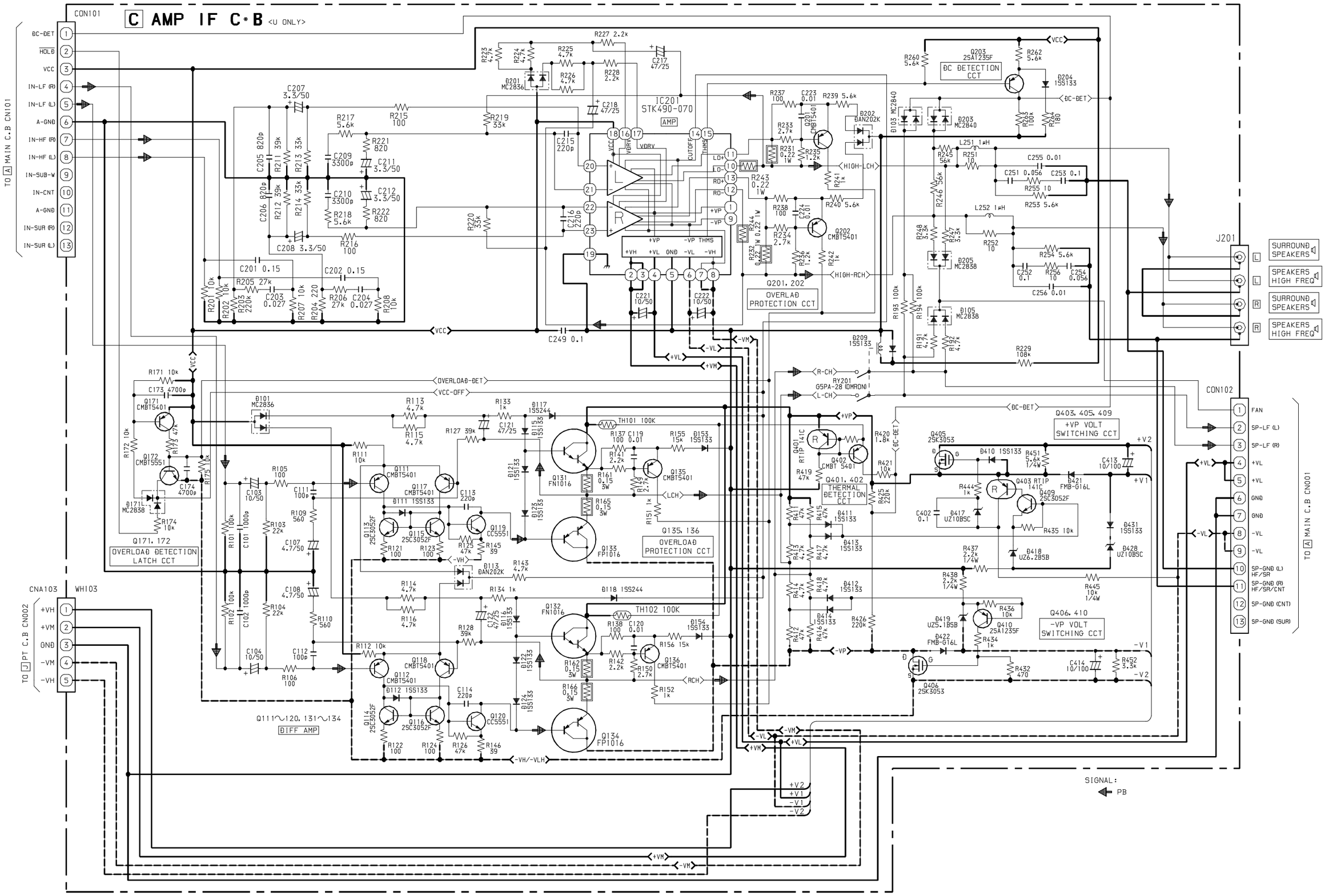




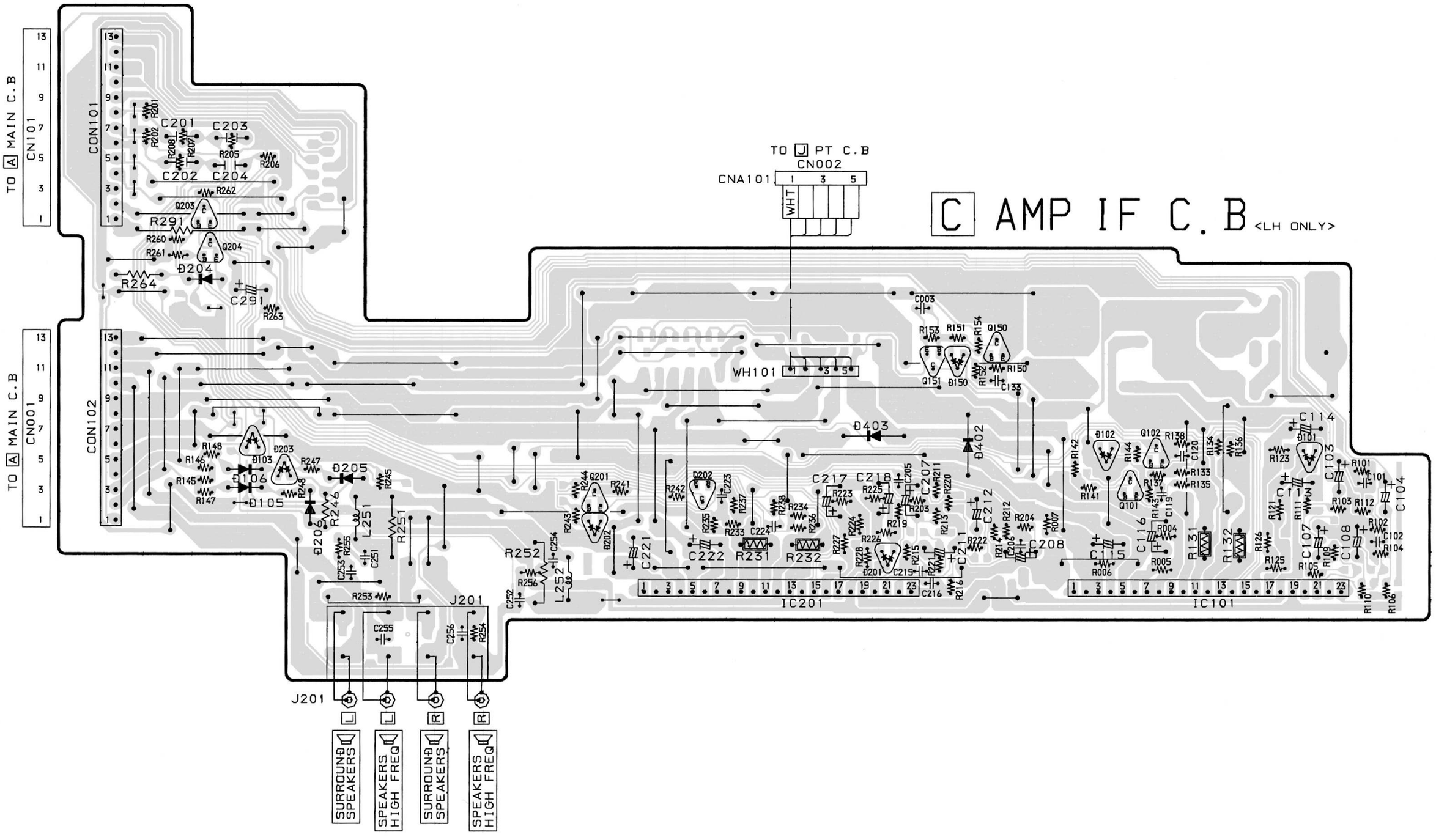
C AMP IF C.B <U ONLY>

TO J PT C.B
CN002
CNA103
WHT
PIN102
TO A MAIN C.B
CN101
CON101
WH103
CON102
CN001
RY201
J201
SURROUND SPEAKERS
SPEAKERS HIGH FREQ
SURROUND SPEAKERS
SPEAKERS HIGH FREQ
IC201

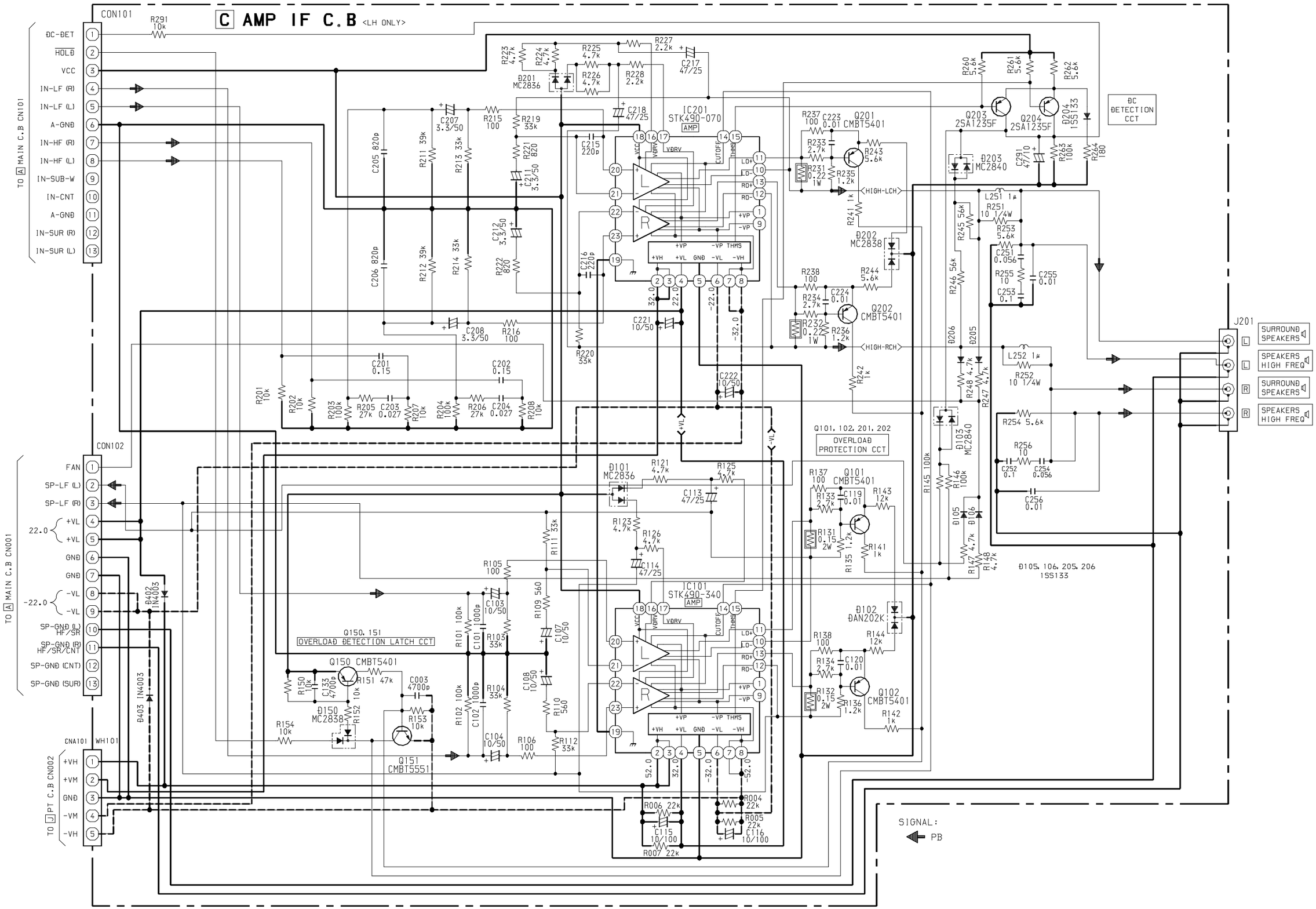
SCHEMATIC DIAGRAM - 6 (U : AMP IF)



C AMP IF C.B <LH ONLY>



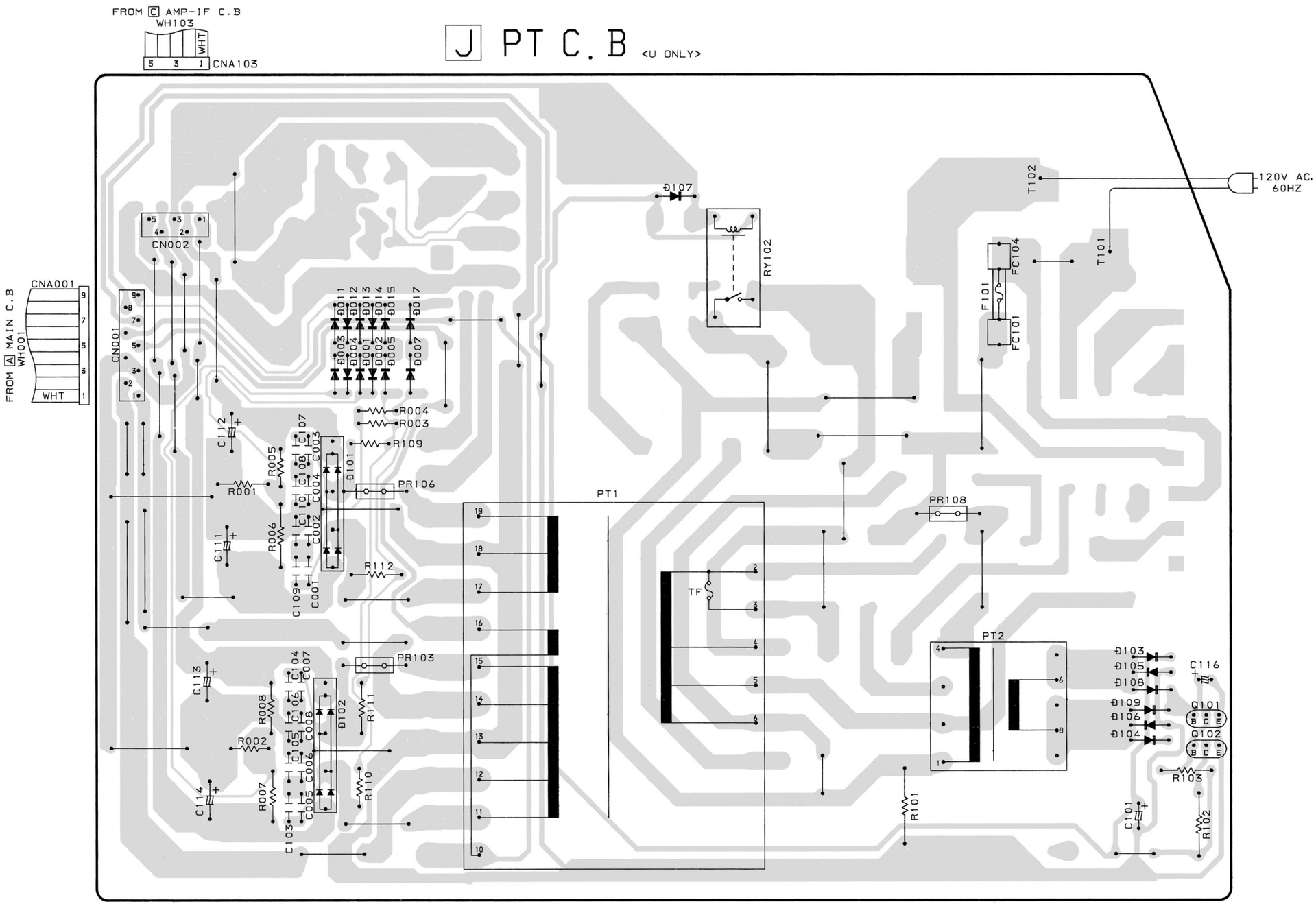
SCHEMATIC DIAGRAM - 7 (LH : AMP IF)



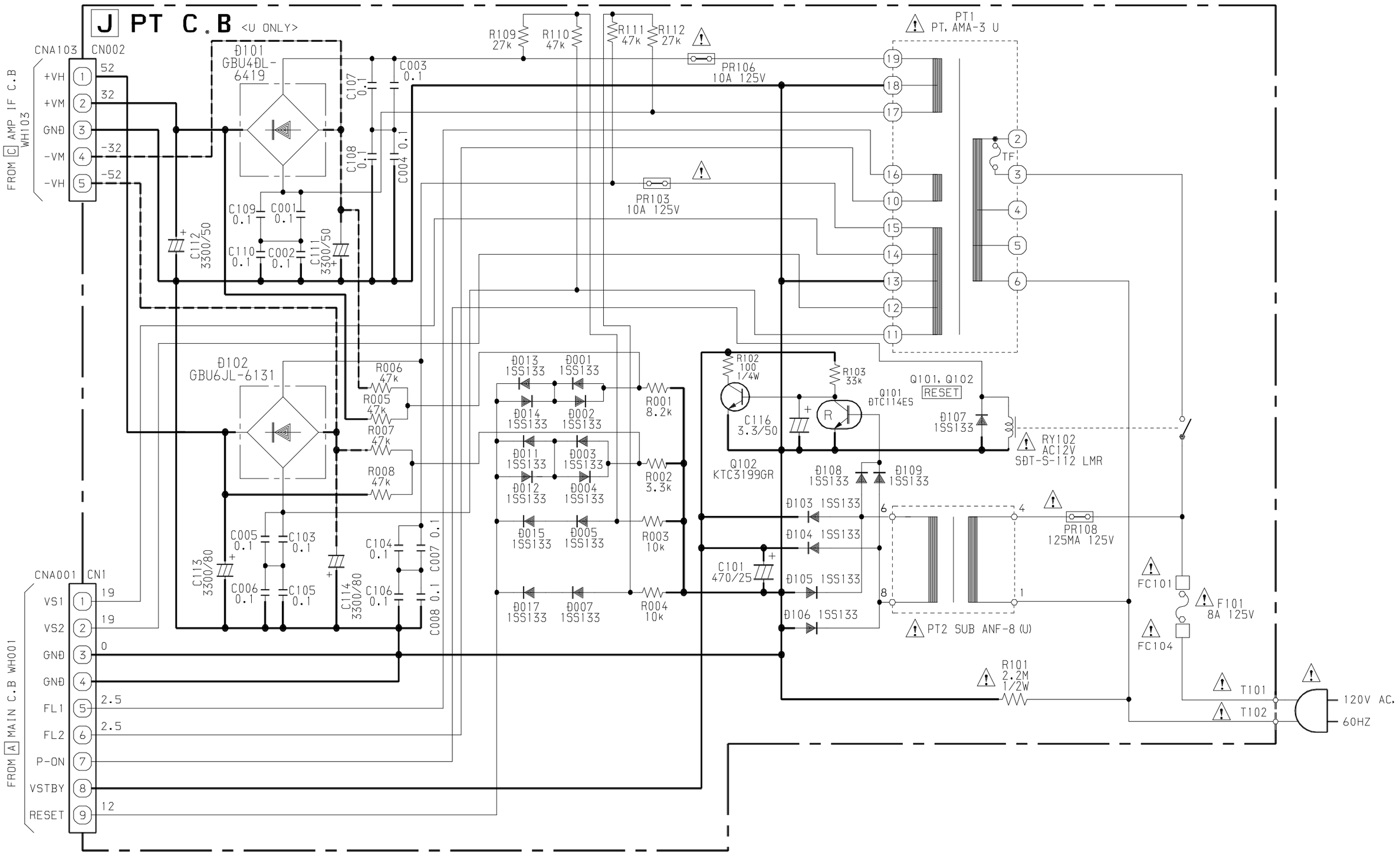
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

J PT C.B <U ONLY>

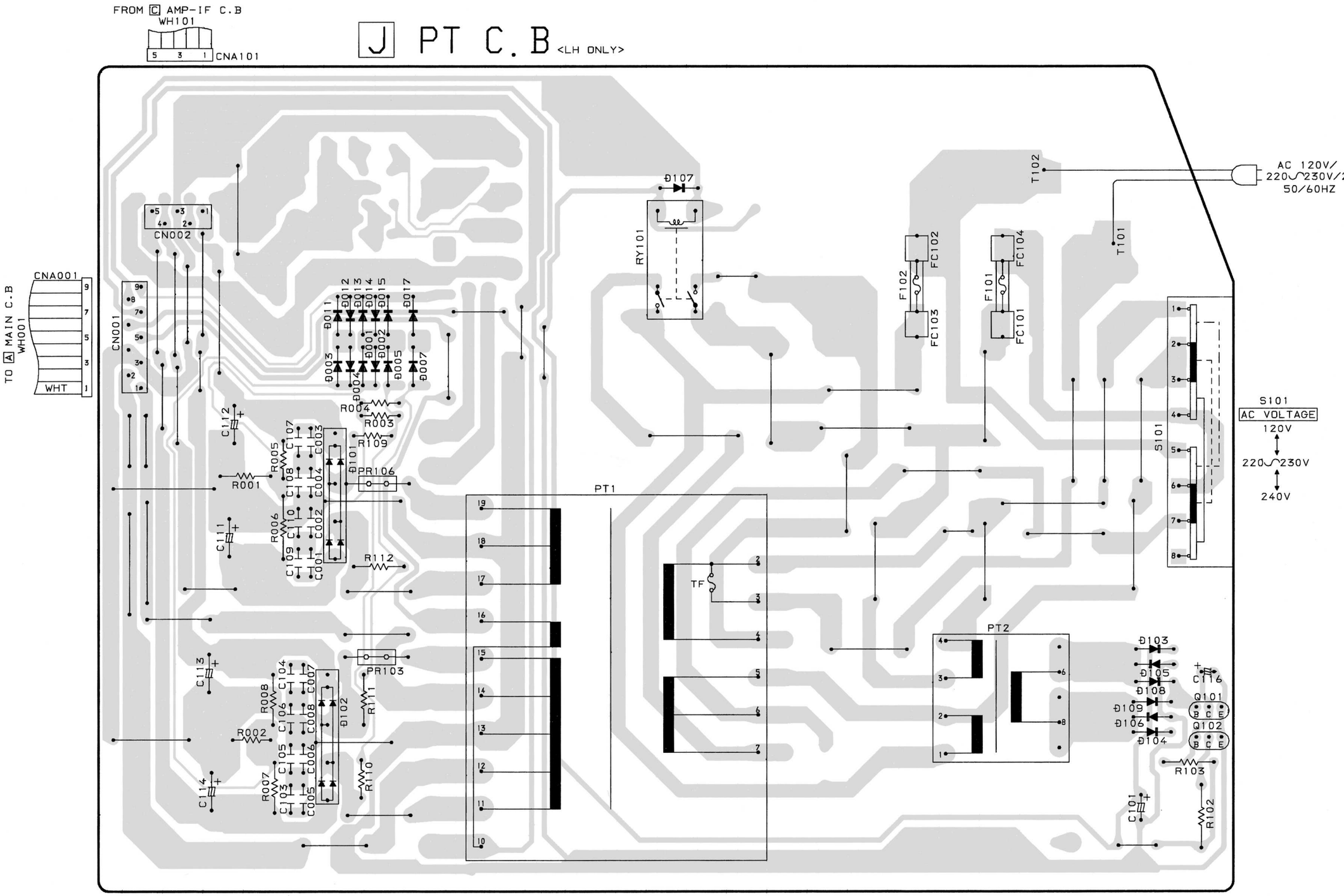


SCHEMATIC DIAGRAM - 8 (U : PT)

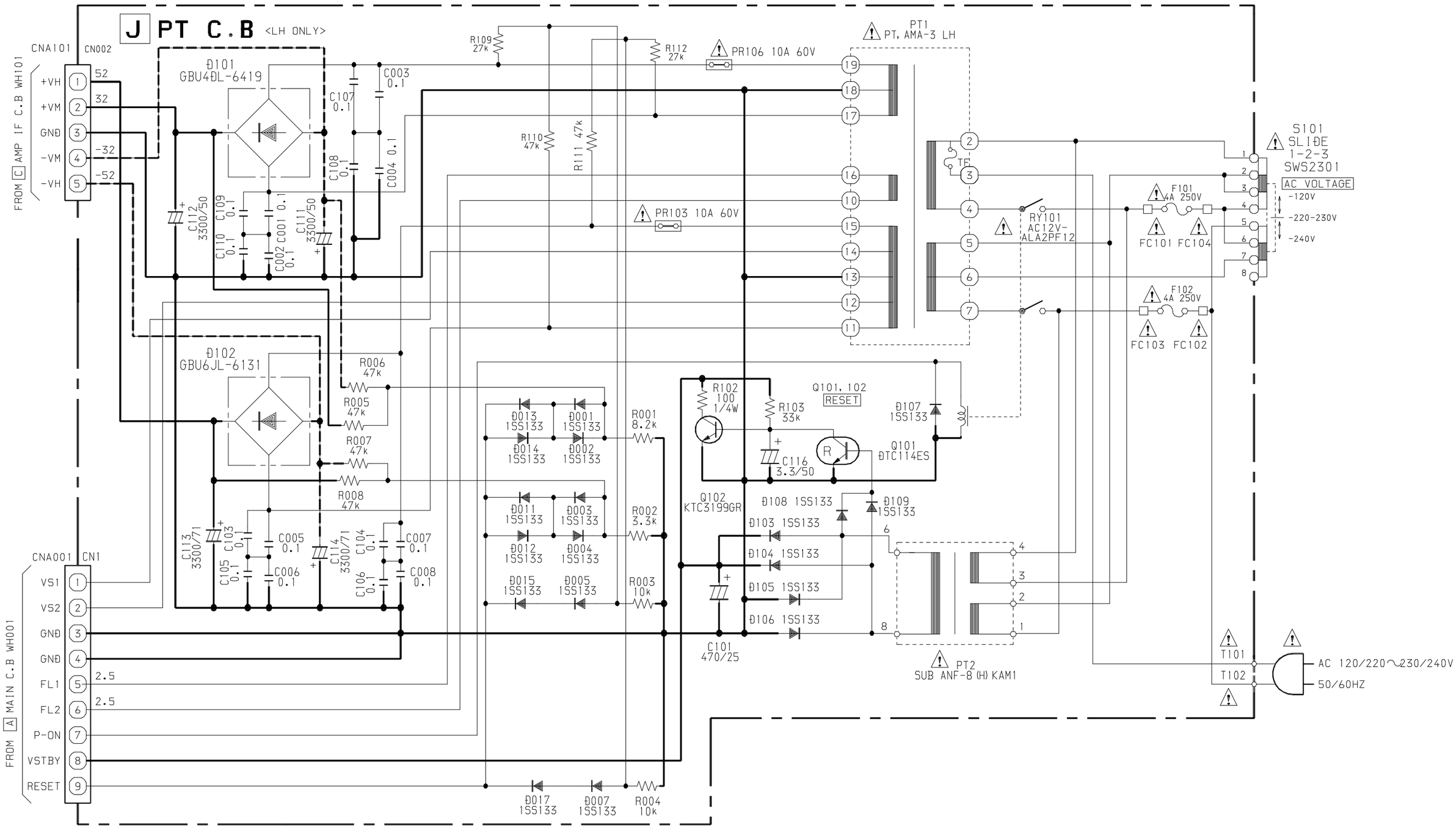


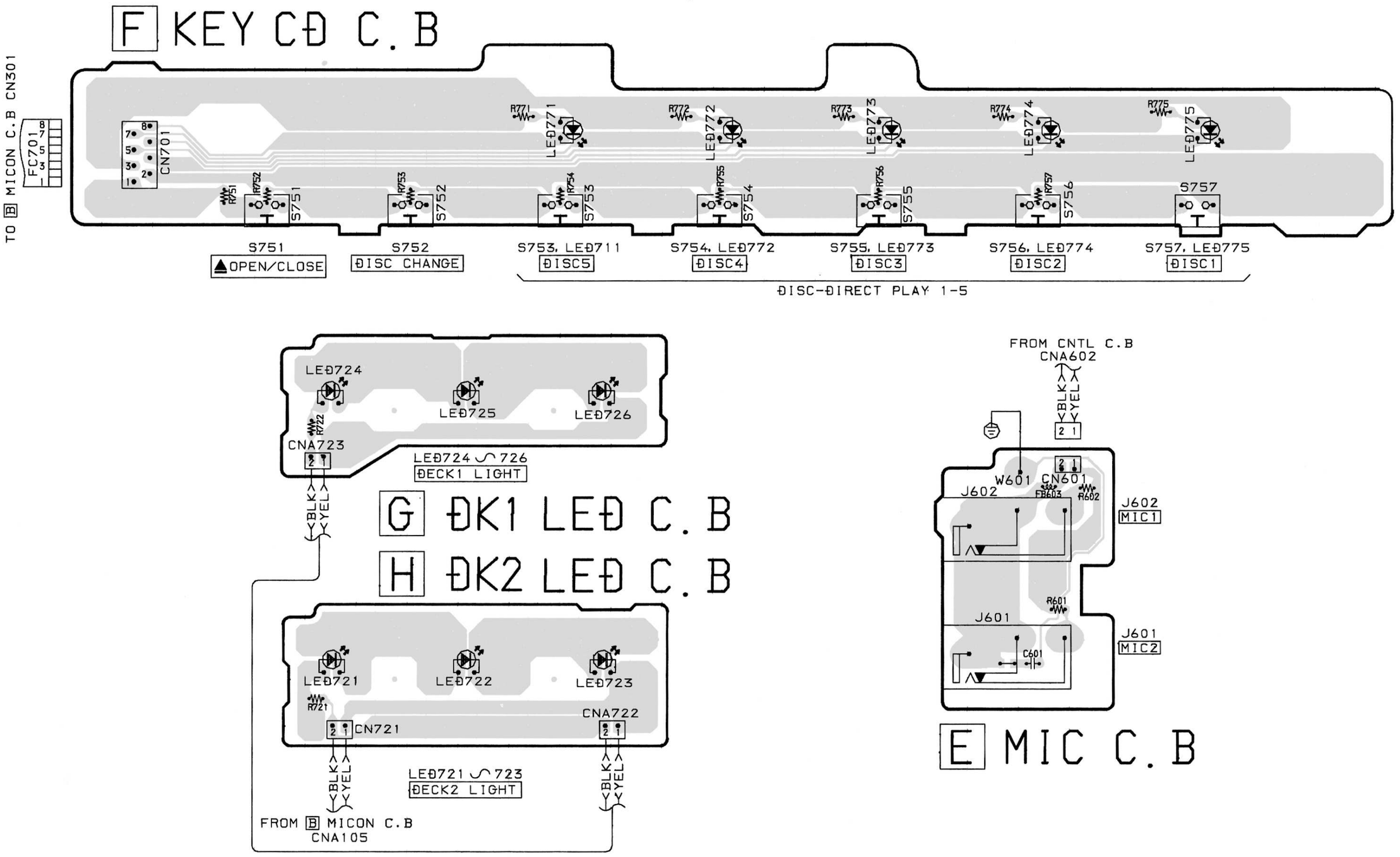
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

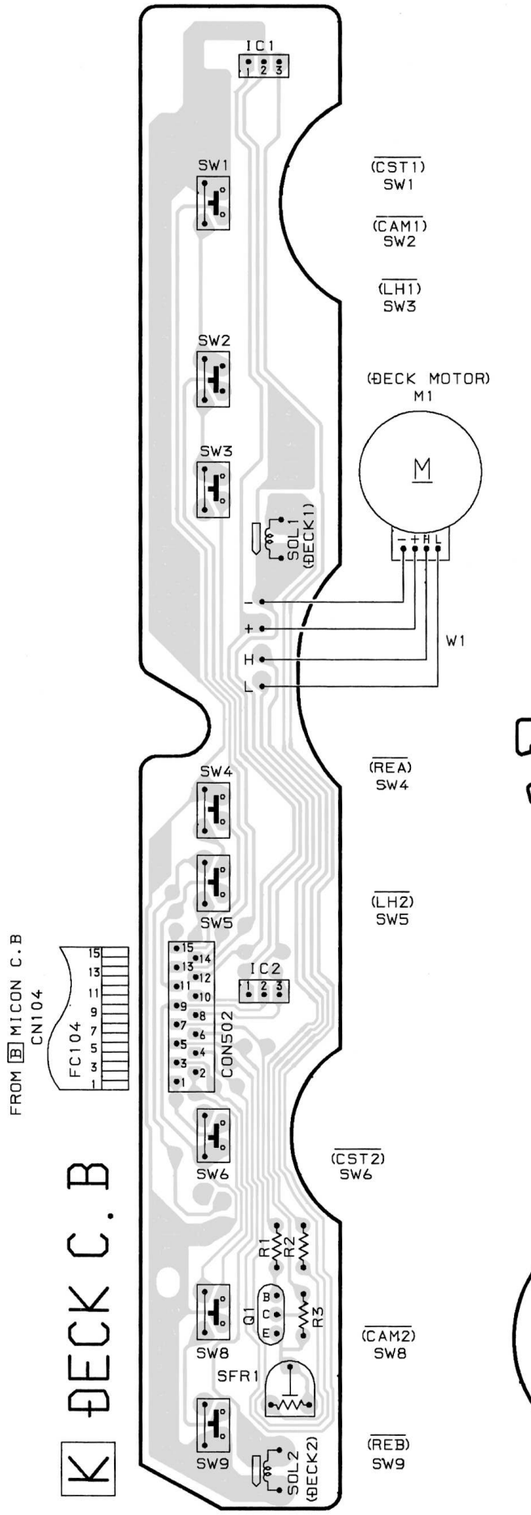
A B C D E F G H I J K L M N O P Q R S T U

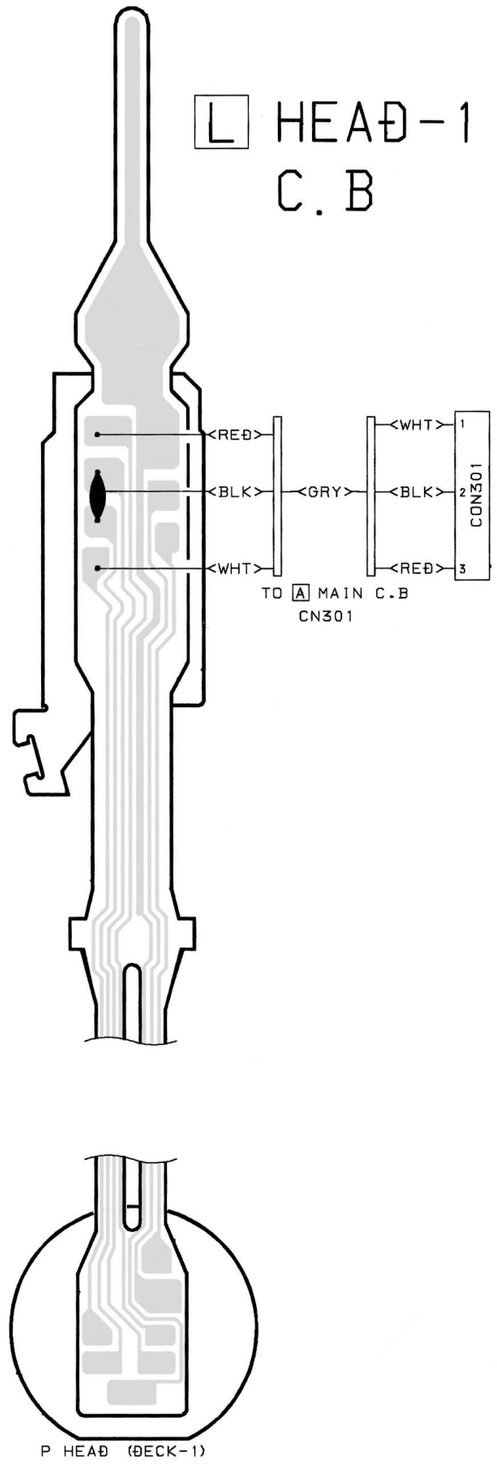


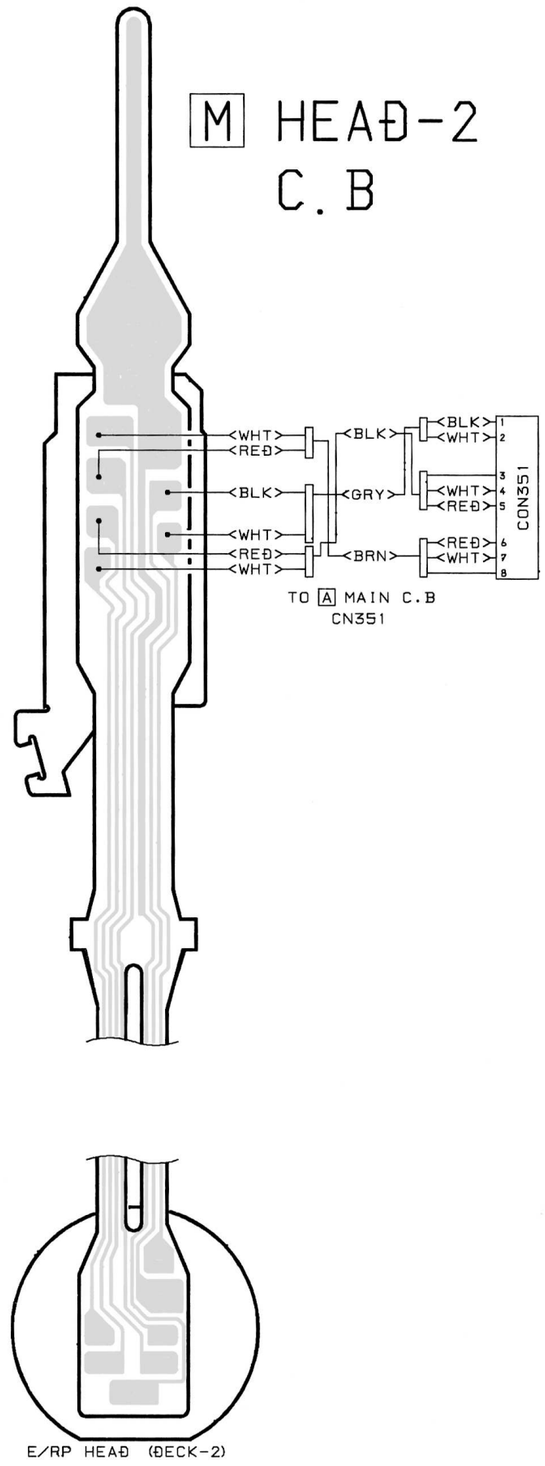
SCHEMATIC DIAGRAM - 9 (LH : PT)




F KEY CD C.B
TO B MICON C.B CN301
FC701
CN701
R771
LED771
R772
LED772
R773
LED773
R774
LED774
R775
LED775
R751
R752
S751
R753
S752
R754
S753
R755
S754
R756
S755
R757
S756
S757
S751
OPEN/CLOSE
S752
DISC CHANGE
S753, LED711
DISC5
S754, LED772
DISC4
S755, LED773
DISC3
S756, LED774
DISC2
S757, LED775
DISC1
DISC-DIRECT PLAY 1-5
LED724
LED725
LED726
R722
CNA723
LED724 ∽ 726
DECK1 LIGHT
G DK1 LED C.B
H DK2 LED C.B
LED721
LED722
LED723
R721
CN721
CNA722
LED721 ∽ 723
DECK2 LIGHT
BLK
YEL
FROM B MICON C.B
CNA105
FROM CNTL C.B
CNA602
W601
CN601
R602
FB603
J602
MIC1
R601
J601
C601
MIC2
E MIC C.B


K ĐECK C.B
IC1
SW1
SW2
SW3
(CST1) SW1
(CAM1) SW2
(LH1) SW3
(ĐECK MOTOR) M1
M
SOL1 (ĐECK1)
W1
SW4
SW5
SW6
SW8
SW9
(REA) SW4
(LH2) SW5
(CST2) SW6
(CAM2) SW8
(REB) SW9
IC2
CON502
FC104
FROM B MICON C.B CN104
R1
R2
R3
Q1
SFR1
SOL2 (ĐECK2)


L HEAĐ-1 C.B
REĐ
BLK
WHT
GRY
CON301
TO A MAIN C.B CN301

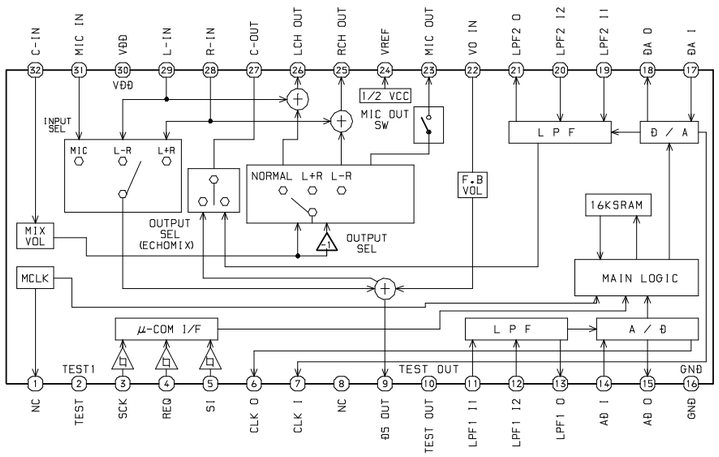

M HEAĐ-2 C.B
WHT
REĐ
BLK
GRY
BRN
CON351
TO A MAIN C.B CN351

P HEAĐ (ĐECK-1)

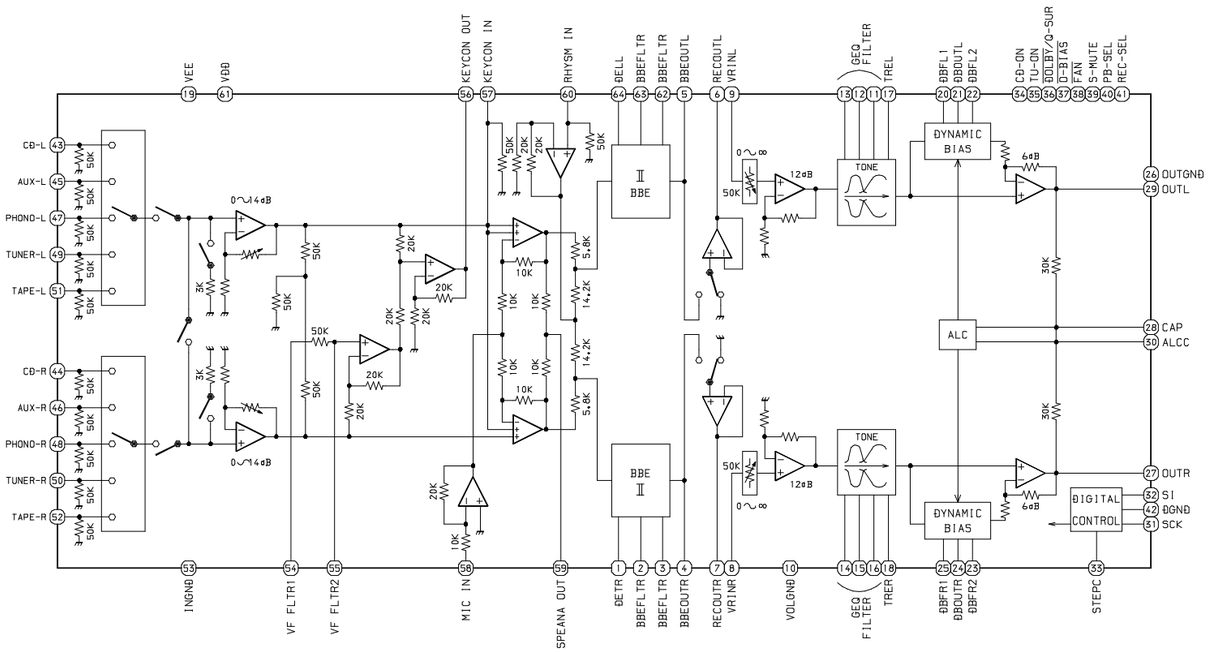
E/RP HEAĐ (ĐECK-2)

IC BLOCK DIAGRAM

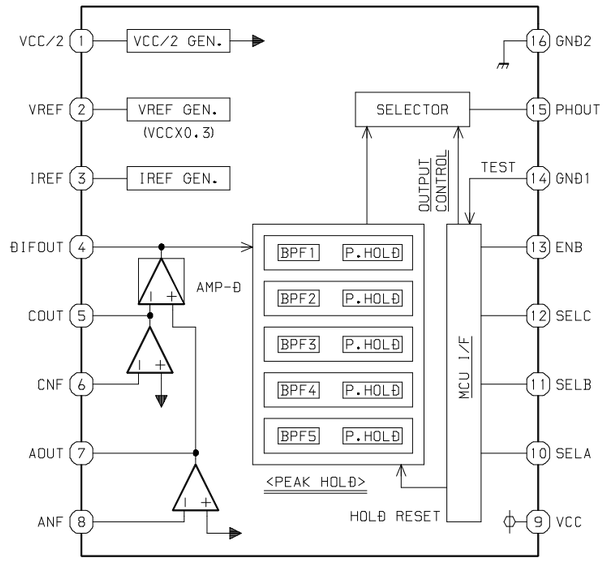
IC, M65849BFP631D



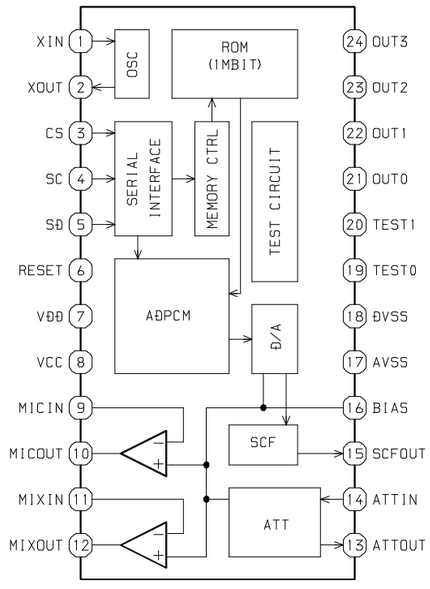
IC, BD3876KS2



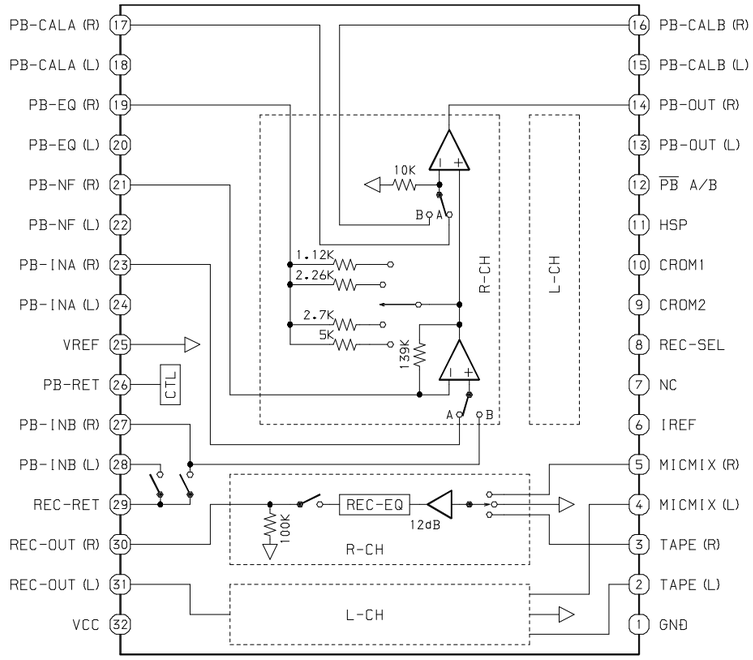
IC, M61506FP



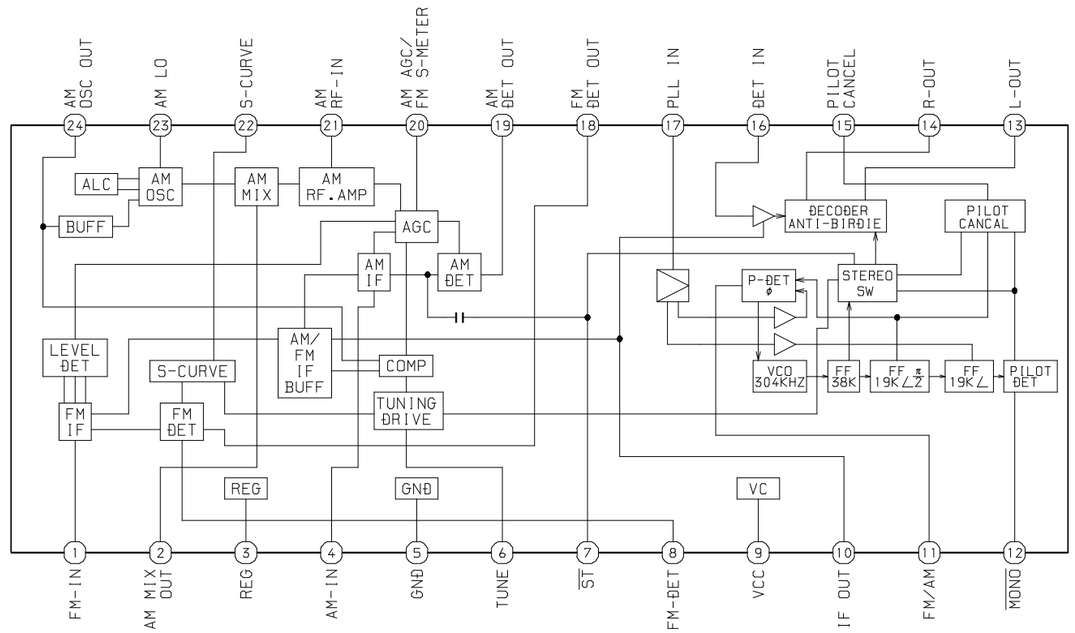
IC, BU9990-03FS



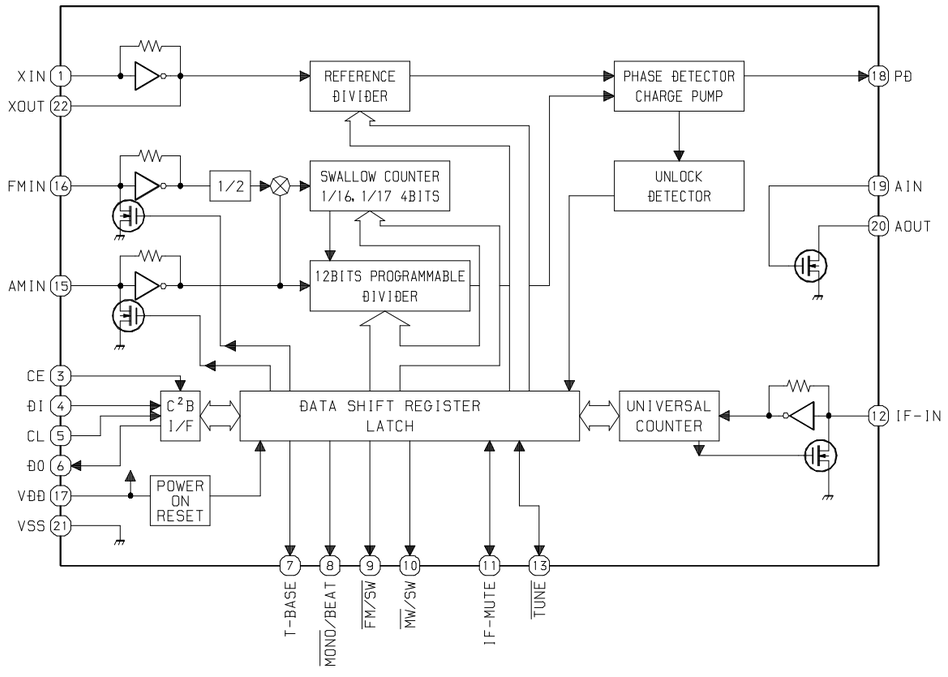
IC, BA7762AFS



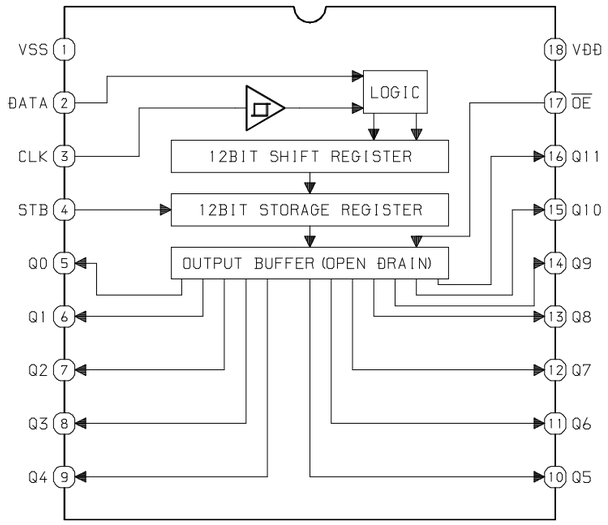
IC, LA1843

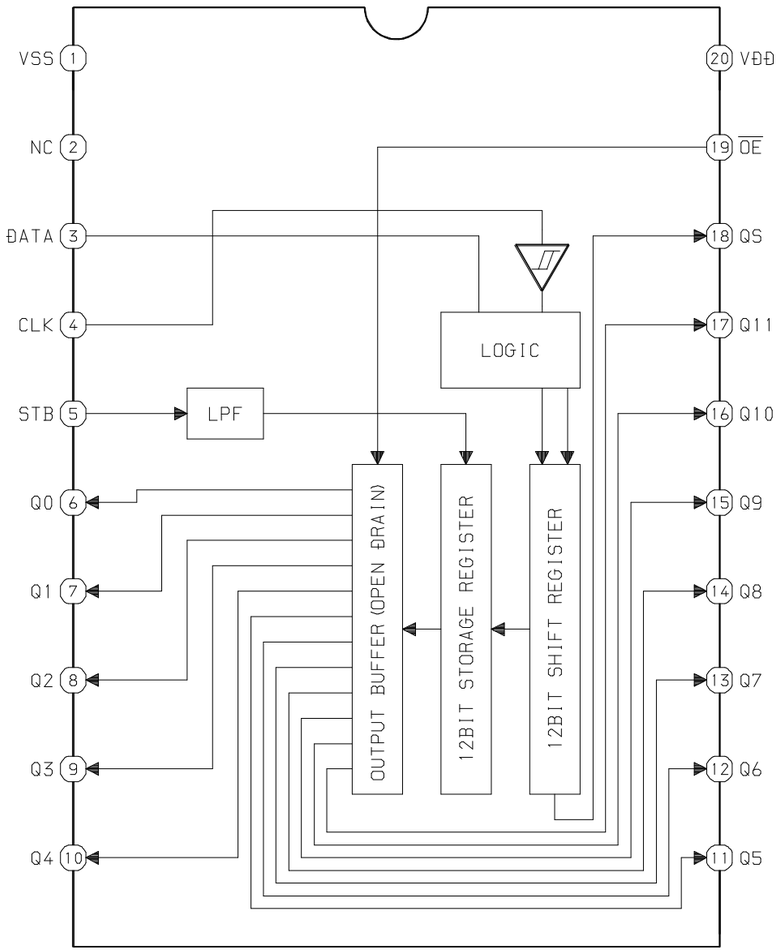


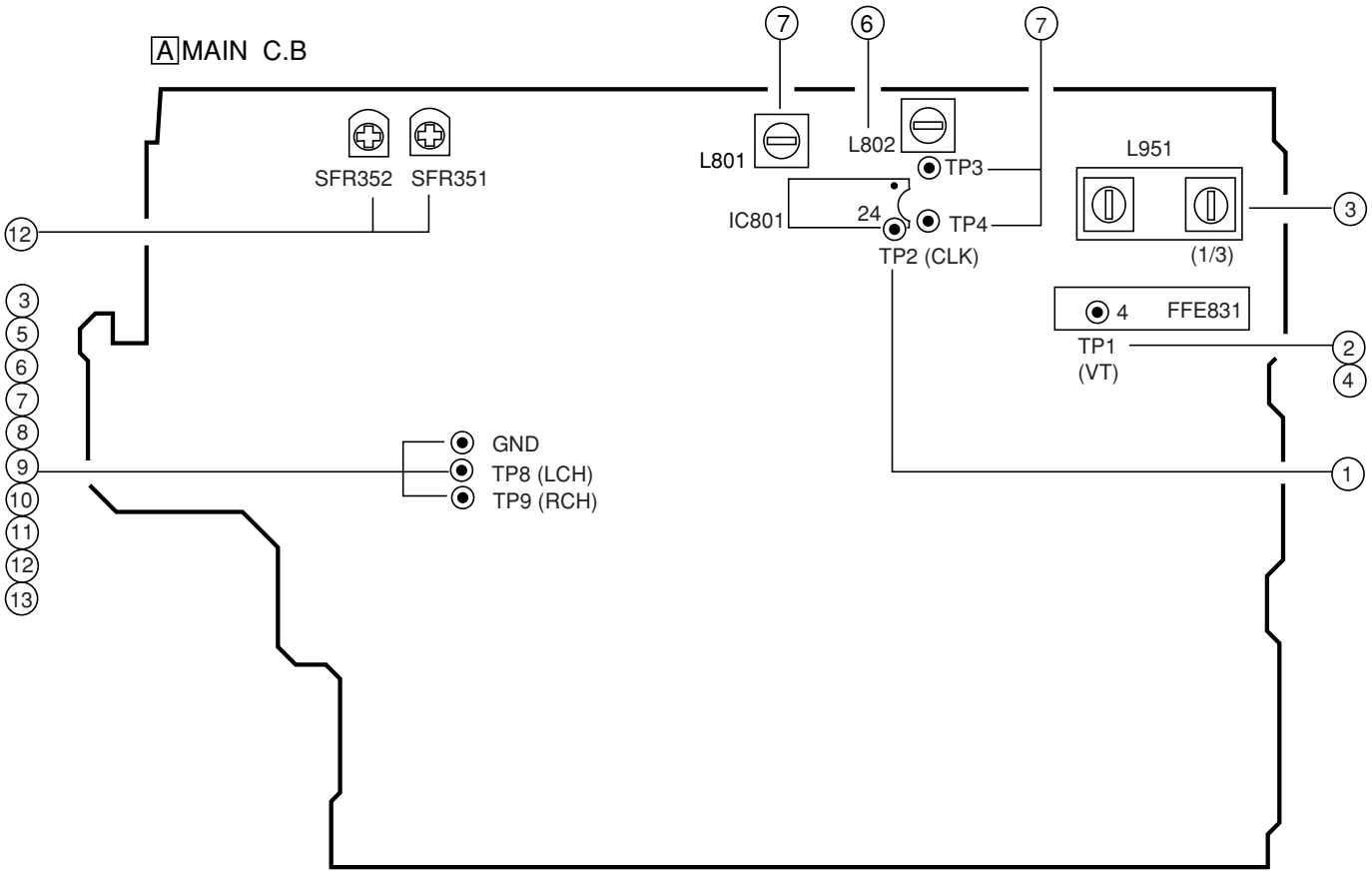
IC, LC72131D



IC, BU2092F




VSS 1
NC 2
ĐATA 3
CLK 4
STB 5
Q0 6
Q1 7
Q2 8
Q3 9
Q4 10
20 VĐĐ
19 OE
18 QS
17 Q11
16 Q10
15 Q9
14 Q8
13 Q7
12 Q6
11 Q5
LOGIC
LPF
OUTPUT BUFFER (OPEN ĐRAIN)
12BIT STORAGE REGISTER
12BIT SHIFT REGISTER



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz, AM 530kHz and check that the test point is less than 8.5V (1710kHz) and more than 0.6V (530kHz).

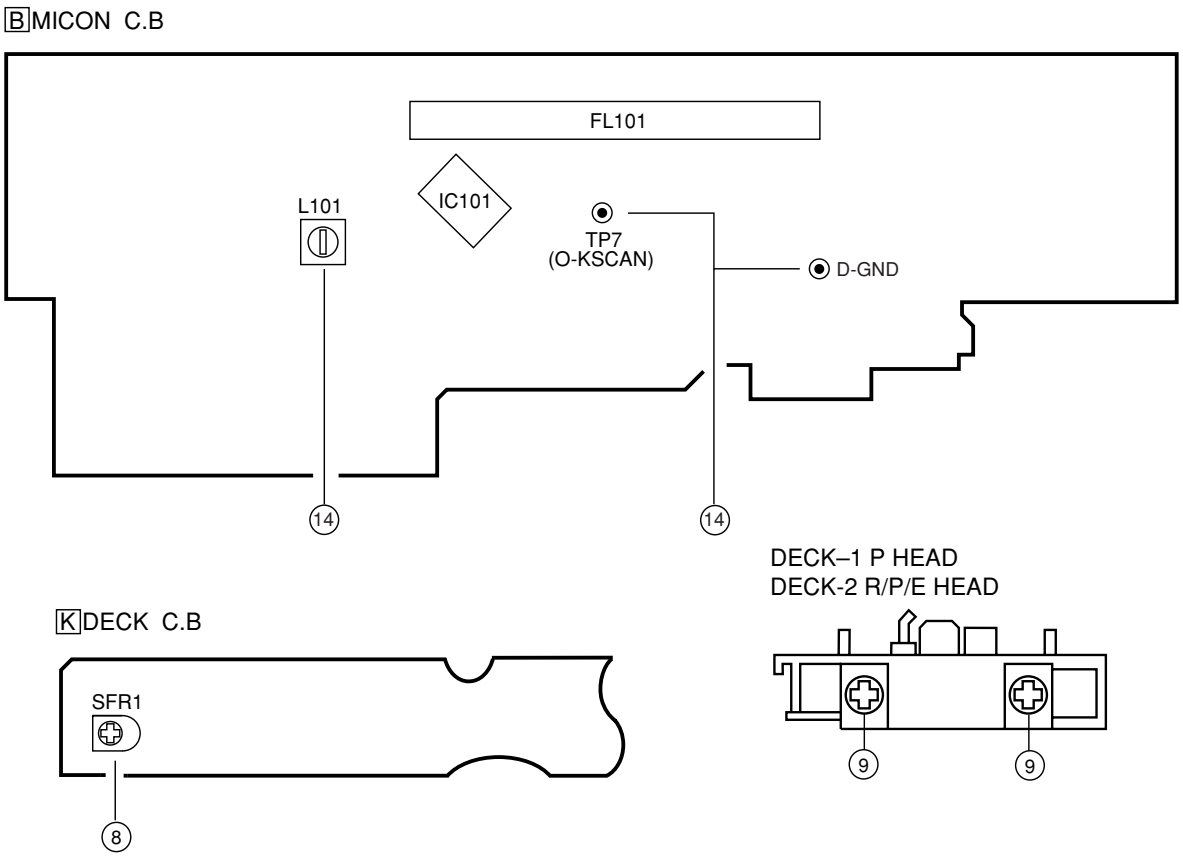
3. AM Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L951 (1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L951 (1/3) so that the test point is maximum.

4. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBµV.

6. AM IF Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L802 ..... 450kHz

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP8 (Lch), TP9 (Rch) (Distortion)
   • Adjustment location : L801
   • Input level : 60dBµV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 0.03V. Next, check that the distortion is minimum



< DECK SECTION >

8. Tape Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA–100
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : SFR1
   Method : Play back (FWD) the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz and ± 45Hz (REV) with respect to forward speed.

9. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.

10. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point :TP8 (Lch), TP9 (Rch)
    Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.

11. PB Sensitivity Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–200
    • Test point : TP8 (Lch), TP9 (Rch)
    Method : Play back the test tape and check that the output level of the test point is 230mV ± 3dB.

12. REC/PB Frequency Response Adjustment (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8 (Lch), TP9 (Rch)
    • Input signal : 1kHz / 10kHz (LINE IN)
    • Adjustment location : SFR351 (Lch)
    SFR352 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 0dB (16mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

13. REC/PB Sensitivity Check (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8 (Lch), TP9 (Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0dB (160mV). Record and play back the 1kHz signals and check that the output is 0dB ± 3.5dB.

< FRONT SECTION >

14. MICON OSC Adjustment
    Settings : • Test point : TP7 (O-KSCAN) and D-GND
    • Adjustment location : L101
    Method : Pull out AC plug, then insert AC plug again with pressing of TUNER / BAND function key and POWER key. Adjust L101 so that the frequency across the test point is 208.80Hz ± 0.21Hz or 4.78ms ~ 4.79ms.

IC DESCRIPTION

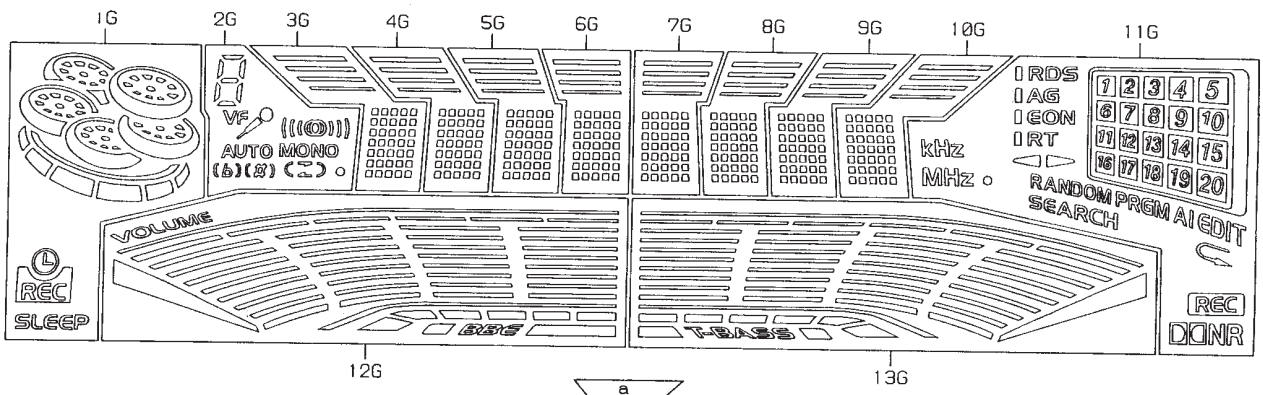
IC, LC876580W-5P55

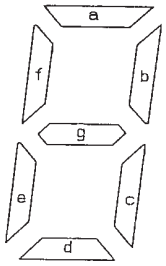
Pin No.	Pin Name	I/O	Description
1	M-CLK	O	Common serial clock.
2	M-DATA	O	Common serial data.
3	M-STB	O	Common serial strobe.
4	PLL-CE	O	Tuner PLL IC chip enable.
5	SR-LCK	O	Shift register IC LATCH clock.
6	RYM-CS	O	RHYTHM IC chip select.
7	POWER	O	Audio power ON/OFF.
8	MUTE	O	System MUTE ON/OFF.
9	$\overline{\text{C-SHIFT}}$	O	CLOCK SHIFT output. "L" : SHIFT
10	$\overline{\text{HP-MUTE}}$	I	Head phone jack detection. "L" : MUTE
11	RESET	I	System RESET input.
12	RTVR	I	Volume rotary encoder.
13	JOG	I	Dial JOG rotary encoder.
14	GND	–	Connected to GND.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD	–	Power supply.
18	HOLD	I	System HOLD input.
19	KEY1	I	Tact key matrix 1 input.
20	KEY2	I	Tact key matrix 2 input.
21	KEY3	I	Tact key matrix 3 input.
22	CD-SW	I	CD MECHA SW matrix input.
23	DISH	I	CD turntable photo sensor.
24	SPEANA	I	Spectrum analyser level detection.
25	MIC	I	MIC input level detection.
26	RDS-SG	I	RDS Signal level input. (Not used)
27	TM-BASE	I	Time base clock input.
28	CD-WRQ/ RDS-CLK	I	CD Read Write Request / Tuner RDS clock input (Not used).
29	REM	I	Remote control signal input.
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P38 ~ P36	O	FL segment P38 ~ P36 output.
46	VDD	–	Power supply.
47	P35/SPEANA–A	O	FL segment P35 output / Spectrum analyser BPF switching control A output.
48	P34/SPEANA–B	O	FL segment P34 output / Spectrum analyser BPF switching control B output.
49	P33/SPEANA–C	O	FL segment P33 output / Spectrum analyser BPF switching control C output.
50	P32/CSNDEMO	O/I	FL segment P32 output / Initial DEMO MODE detect. "H" : CASINO DEMO.
51	–VP	–	Power supply for FL.
52	P31/TU3	O/I	FL segment P31 output / TUNER series, TU3 select.
53	P30/TU2	O/I	FL segment P30 output / TUNER series, TU2 select.
54	P29/TU1	O/I	FL segment P29 output / TUNER series, TU1 select.
55	P28/$\overline{\text{DSP}}$	O/I	FL segment P28 output / DSP function detection. "L" : ON

Pin No.	Pin Name	I/O	Description
56	P27/RHYTHM	O/I	FL segment P27 output / RHYTHM function detection. "H" : ON
57	P26/KEYCON	O/I	FL segment P26 output / KEYCON function detection. "H" : ON
58	P25/5MODE	O/I	FL segment P25 output / GEQ 5MODE select. "H" : 5 MODE (Not used)
59	P24/$\overline{\text{ECO}}$	O/I	FL segment P24 output / ECO mode detection. "H" : ECO OFF
60	P23	O/I	FL segment P23 output.
61	P22	O/I	FL segment P22 output.
62	P21/5.1+DLPRO	O/I	FL segment P21 output / 5.1CH+PROLOGIC detection. "H" : ON
63	P20/DLPRO	O/I	FL segment P20 output / DOLBY PROLOGIC detection. "H" : ON (Not used)
64	P19/$\overline{\text{CST2}}$	O/I	FL segment P19 output / Deck 2 cassette detection. "L" : ON
65	P18/$\overline{\text{REB}}$	O/I	FL segment P18 output / Deck 2 side B recordable SW. "L" : REC
66	P17/$\overline{\text{CAM2}}$	O/I	FL segment P17 output / Deck 2 CAM SW input. "L" : ON
67	P16/AUTO1	O/I	FL segment P16 output / Deck 1 auto stop input.
68	P15/AUTO2	O/I	FL segment P15 output / Deck 2 auto stop input.
69	P14/$\overline{\text{CAM1}}$	O/I	FL segment P14 output / Deck 1 CAM SW input. "L" : ON
70	P13/$\overline{\text{CST1}}$	O/I	FL segment P13 output / Deck 1 cassette detection SW. "L" : ON
71	P12/$\overline{\text{REA}}$	O/I	FL segment P12 output / Deck 2 side-A recordable SW. "L" : REC
72	VDD	–	Power supply.
73 ~ 83	P11 ~ P1	O	FL segment P11 ~ P1 output.
84	P39	O	FL segment P39 output.
85	$\overline{\text{KEYSCAN}}$	O	KEYSCAN output. "L" : ON
86	$\overline{\text{MOTOR}}$	O	DECK motor ON/OFF control. "L" : ON
87	$\overline{\text{SOL1}}$	O	DECK 1 solenoid control. "L" : ON
88	$\overline{\text{SOL2}}$	O	DECK 2 solenoid control. "L" : ON
89	GND	–	Connected to GND.
90	VDD	–	Power supply.
91	DISH-RVS	O	CD dish reverse output. "H" : REV
92	DISH-FWD	O	CD dish forward output. "H" : FWD
93	$\overline{\text{OPEN}}$	O	CD tray OPEN output. "L" : OPEN
94	$\overline{\text{CLOSE}}$	O	CD tray CLOSE output. "L" : CLOSE
95	CD-DATA/ RDS DATA	O/I	Serial data output to CD. RDS serial data input (Not used).
96	CD-XLT	O	CD DSP serial LATCH output. (Chip enable)
97	CD-CLK	O	CD DSP serial CLOCK output.
98	CD-LED	O	CD flash window LED control.
99	CD-SUBQ/IFC	I	CD SUBQ (Sub code) serial data input / TUNER IF COUNT data input.
100	DRF/STEREO	I	RF (radio frequency) detect / TUNER STEREO signal input.

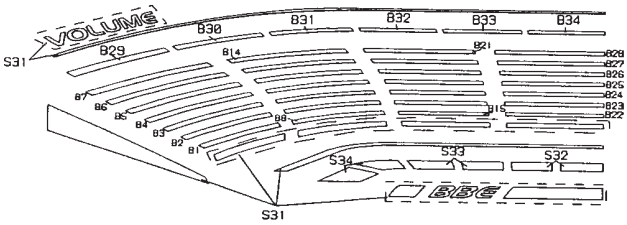
FL (BJ751GNK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

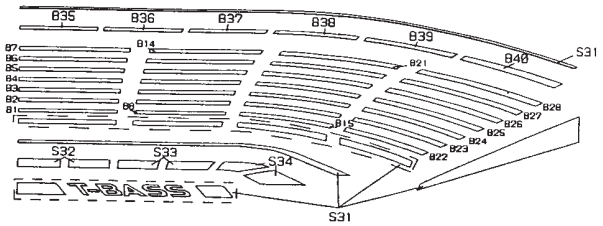




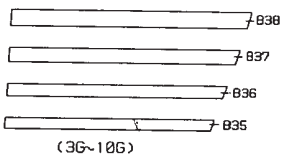
(2G)



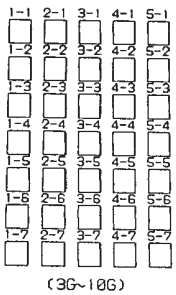
(12G)



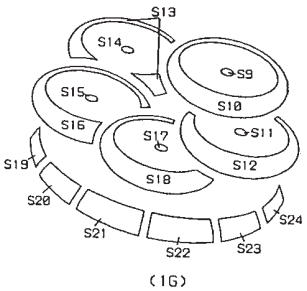
(13G)



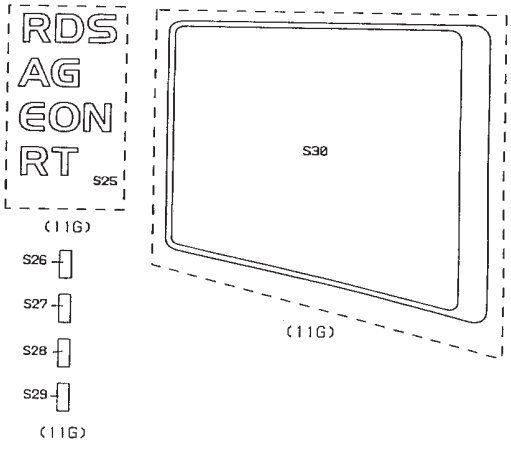
(3G~10G)



(3G~10G)



(1G)



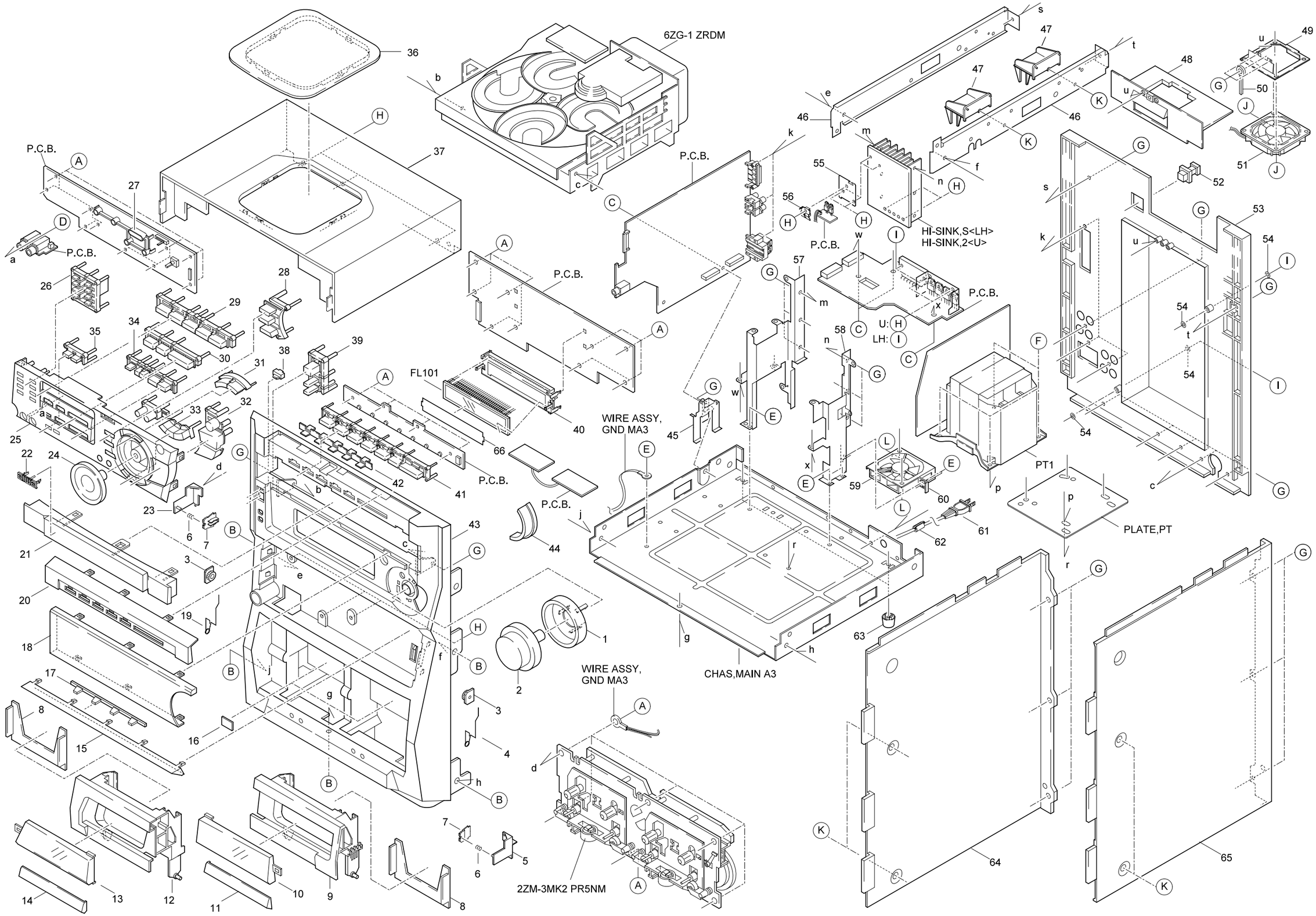
(11G)

(11G)

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G
P1	SLEEP	-	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	S30	S31	S31
P2	REC	-	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	1	S32	S32
P3	◷	-	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	2	S33	S33
P4	S1	-	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	3	S34	S34
P5	S2	-	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	4	B1	B1
P6	S3	-	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	5	B8	B8
P7	S9	-	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	6	B15	B15
P8	S10	-	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	7	B22	B22
P9	S7	-	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	8	B2	B2
P10	S14	-	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	9	B9	B9
P11	S13	a	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	10	B16	B16
P12	S11	b	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	11	B23	B23
P13	S4	f	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	12	B3	B3
P14	S12	g	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	13	B10	B10
P15	S6	c	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	14	B17	B17
P16	S15	e	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	15	B24	B24
P17	S16	d	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	16	B4	B4
P18	S5	VF	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	17	B11	B11
P19	S17	🎤	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	18	B18	B18
P20	S18	((◉))	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	19	B25	B25
P21	S8	AUTO	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	20	B5	B5
P22	S19	MONO	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	S25	B12	B12
P23	S20	(♭)	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	S26	B19	B19
P24	S21	(♯)	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	S27	B26	B26
P25	S22	❮	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	S28	B6	B6
P26	S23	⇄	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	S29	B13	B13
P27	S24	❯	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	◁	B20	B20
P28	-	○	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	▷	B27	B27
P29	-	-	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	DX NR	B7	B7
P30	-	-	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	REC	B14	B14
P31	-	-	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	↩	B21	B21
P32	-	-	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	EDIT	B28	B28
P33	-	-	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	AI	B29	B35
P34	-	-	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	PRGM	B30	B36
P35	-	-	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	RANDOM	B31	B37
P36	-	-	B38	B38	B38	B38	B38	B38	B38	B38	SEARCH	B32	B38
P37	-	-	B37	B37	B37	B37	B37	B37	B37	B37	○	B33	B39
P38	-	-	B36	B36	B36	B36	B36	B36	B36	B36	MHz	B34	B40
P39	-	-	B35	B35	B35	B35	B35	B35	B35	B35	kHz	-	-

MECHANICAL EXPLODED VIEW 1 / 1



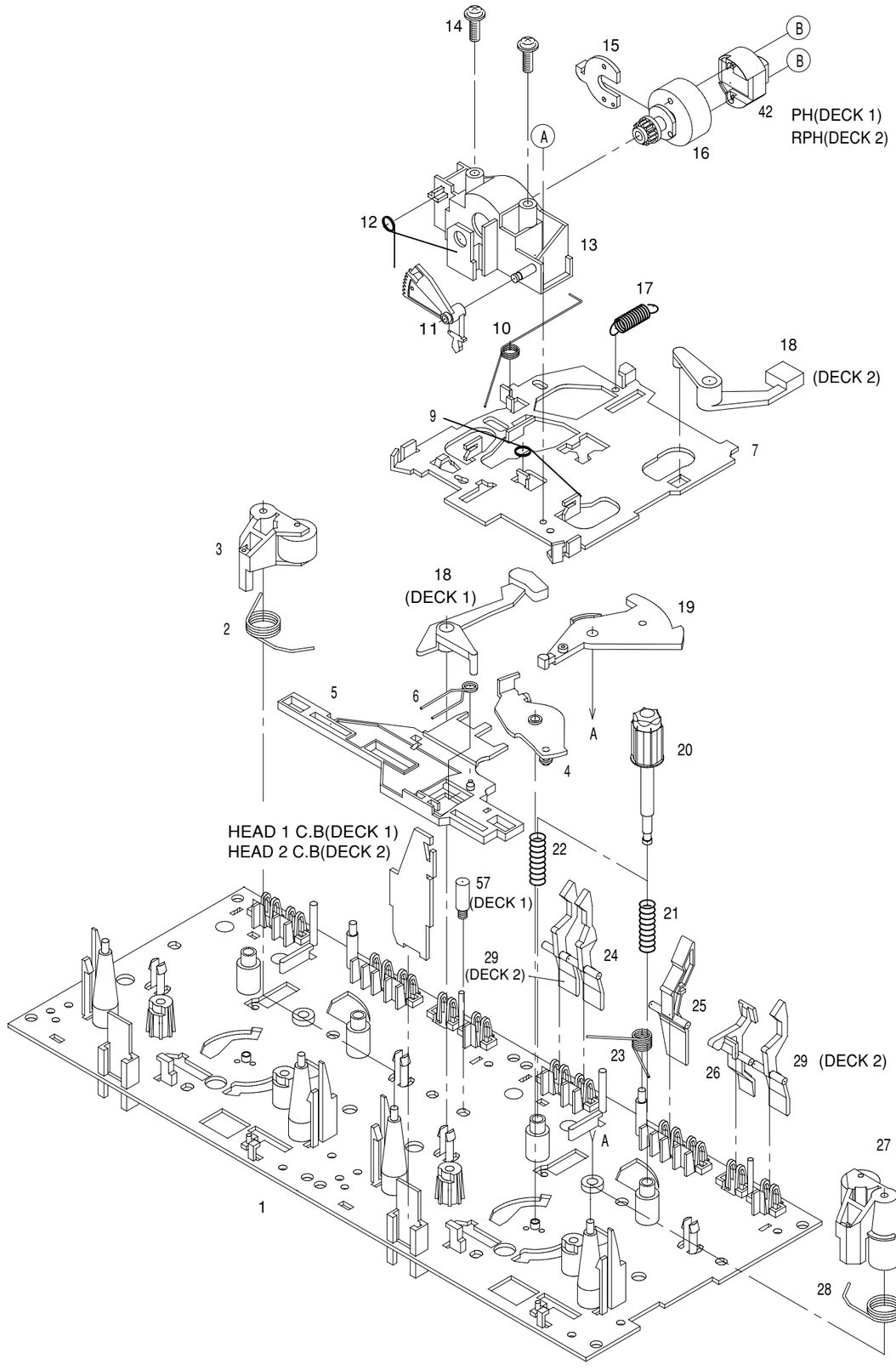
MECHANICAL PARTS LIST 1 / 1

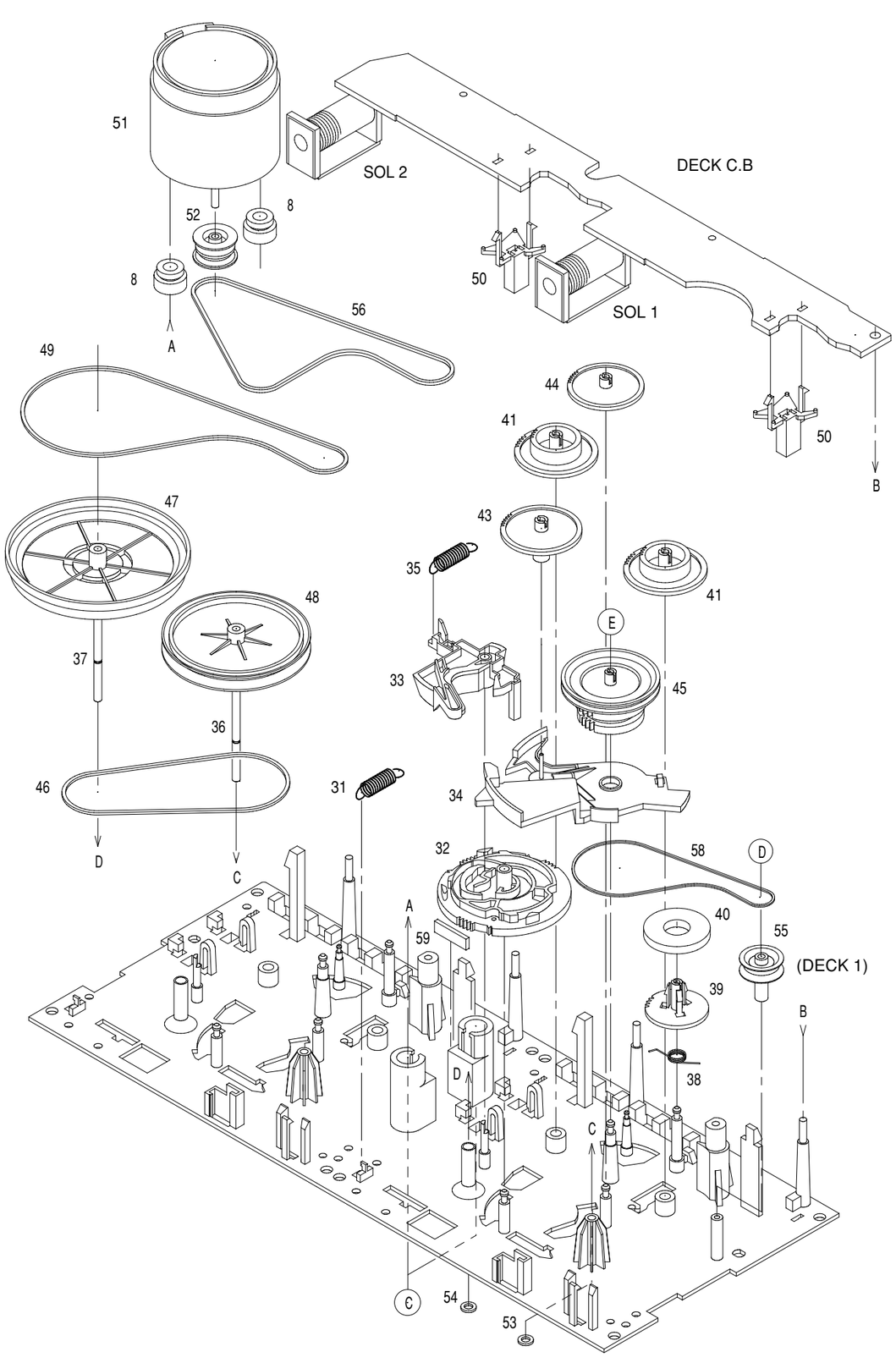
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MA3-094-010		RING,MAIN<LH>
1	8A-MA3-095-010		RING,VOL<U>
2	8A-MA3-090-010		KNOB,RTRY MAIN
3	87-NF8-220-010		DMPR,150
4	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
5	87-NF4-217-110		HLDR,LOCK 2
6	86-NF9-224-010		SPR-C,LOCK
7	82-NF5-229-010		PLATE,LOCK
8	86-NF6-061-010		REFLECTOR,CASS
9	8A-MA3-026-010		BOX,CASS R
10	8A-MA3-056-010		WINDOW,CASS R
11	8A-MA3-036-010		PANEL,CASS R 3
12	8A-MA3-025-010		BOX,CASS L
13	8A-MA3-055-010		WINDOW,CASS L
14	8A-MA3-035-010		PANEL,CASS L 3
15	8A-MA3-041-010		PANEL,FUN 5F<LH>
15	8A-MA3-042-010		PANEL,FUN 5F U<U>
16	81-532-080-010		LABEL, CASS. COMPT
17	8A-MA3-102-010		REFLECTOR,FUN 5F<LH>
17	8A-MA3-103-010		REFLECTOR,FUN 5F U<U>
18	8A-MA3-050-010		WINDOW,DISP<LH>
18	8A-MA3-052-010		WINDOW,DISP U<U>
19	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
20	8A-MA3-034-010		PANEL,CD LED
21	8A-MA3-037-010		PANEL ASSY,TRAY 3
22	87-B00-002-010		BADGE AIWA 30 ABS S1
23	87-NF4-216-010		HLDR,LOCK 1
24	8A-MA3-093-010		KNOB ASSY,RTRY JOG
25	8A-MA3-030-010		PANEL,FR H 3<LH>
25	8A-MA3-031-010		PANEL,FR U 3<U>
26	8A-MA3-081-010		KEY ASSY,GEQ 4M<U>
26	8A-MA3-080-010		KEY ASSY,GEQ 4M PM<LH>
27	8A-MA3-210-010		GUIDE,LED OPE
28	8A-MA3-071-010		KEY,TIMER
29	8A-MA3-066-010		KEY,FUN 5F
30	8A-MA3-083-010		KEY ASSY,DIR
31	8A-MA3-072-010		KEY,FREQ
32	8A-MA3-073-010		KEY,ENTER
33	8A-MA3-074-010		KEY,RHYTHM<LH>
34	8A-MA3-084-010		KEY ASSY,FF
35	8A-MA3-069-010		KEY,KARAOKE
36	8A-MA3-057-010		WINDOW,TOP<LH>
36	8A-MA3-058-010		WINDOW,TOP U<U>
37	8A-MA3-020-110		CABI,TOP<LH>
37	8A-MA3-021-110		CABI,TOP U<U>
38	8A-MA3-101-010		REFLECTOR,POWER
39	8A-MA3-075-010		KEY,POWER
40	88-MA1-205-010		GUIDE,FL
41	8A-MA3-061-010		KEY,CD
42	8A-MA3-100-010		REFLECTOR,CD
43	8A-MA3-001-010		CABI,FR U 3
44	8A-MA3-062-010		KEY,MIC<LH>
45	8A-MA3-207-010		HLDR,PWB MAIN H
46	88-MA1-208-210		JOINT,CABI
47	8A-MA3-212-010		HLDR,PWB PT
48	8A-MA3-211-010		COVER,FAN
49	8A-NF3-223-010		HLDR,FAN
50	87-064-185-010		HLDR,WIRE
51	87-A91-711-010		FAN,3110GL-B 4W-B34-H
52	84-ZG1-245-210		CAP,OPTICAL
53	8A-MA3-012-010		CABI,REAR LHSTNM<LH>
53	8A-MA3-010-010		CABI,REAR USTNM<U>
54	8A-MA3-214-010		W,3.5-6.5-1 W/ADH
55	8A-MA3-213-010		PLATE,TR
56	86-NF6-211-010		HLDR,IC T1.6
57	8A-MA3-205-010		HLDR,HT-SINK L
58	8A-MA3-206-010		HLDR,HT-SINK R
59	87-A91-423-010		FAN,AD0612DS-D7OGL
60	8A-MA2-202-010		HLDR,FAN
⚠ 61	87-A80-148-010		AC CORD ASSY,E BLK<LH>
⚠ 61	87-A80-149-010		AC CORD ASSY,U BLK<U>
62	87-085-185-010		BUSHING, AC CORD (E)<LH>
62	87-085-189-010		BUSHING, CORD (U)<U>
63	87-MA3-062-010		FOOT, H17
64	8A-MA3-045-010		PANEL,SIDE L 3<LH>
64	8A-MA3-047-010		PANEL,SIDE L 3 (U)<U>
65	8A-MA3-046-010		PANEL,SIDE R 3<LH>
65	8A-MA3-048-010		PANEL,SIDE R 3 (U)<U>
66	8A-MA3-110-010		PLATE,FL 3
A	87-078-060-010		BVIT3PB+3-10
B	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
C	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
D	81-MK1-210-010		S-SCREW,VFT2+3-16
E	87-067-688-010		BVTT+3-6
F	87-067-975-010		S-SCREW,1T+4-8
G	87-067-703-010		TAPPING SCREW, BVT2+3-10
H	87-067-758-010		BVT2+3-12 W/O SLOT
I	87-067-581-010		S-SCREW,BVT2+3-15 W/O
J	87-067-579-010		TAPPING SCREW, BVT2+3-8
K	87-067-641-010		UTT2+3-8(W/O SLOT)BL
L	87-067-689-010		S-SCREW,BVT2+3-18

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

TAPE MECHANISM EXPLODED VIEW 1 / 1





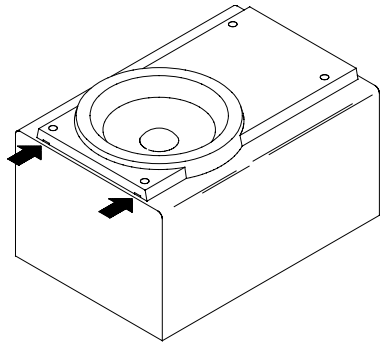
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-366-010		HEAD,PH YK50P-BF414 FPC
42	87-A90-367-010		HEAD,RPH YK56R-BF414 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

SPEAKER DISASSEMBLY INSTRUCTIONS

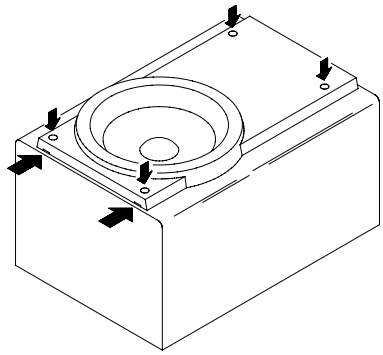
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



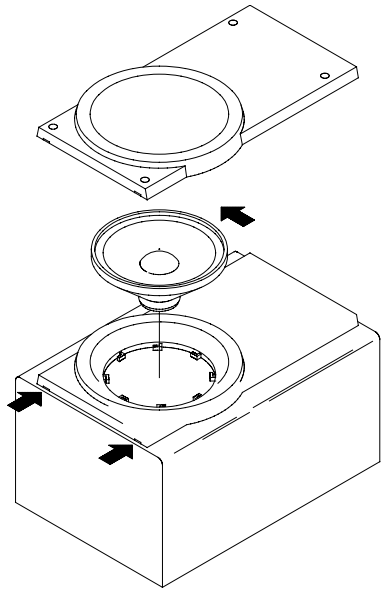
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

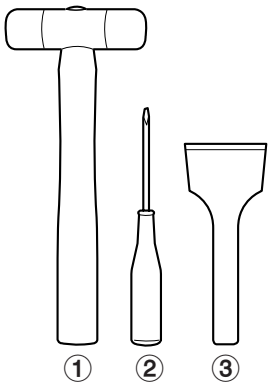


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

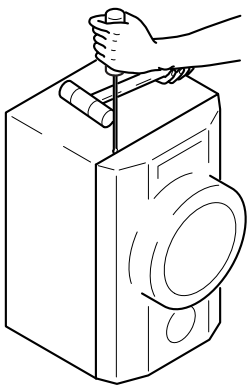


Fig-1

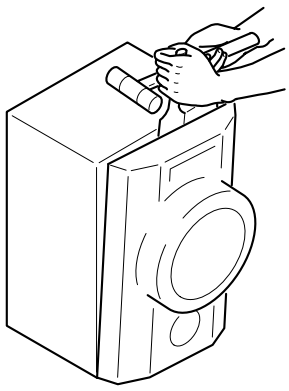


Fig-2

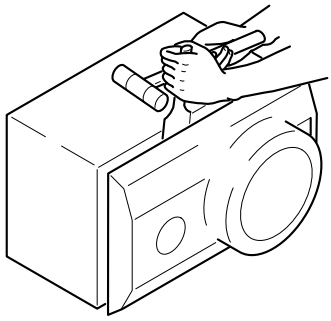


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST <SX-WZL700 (YUSL), SX-WZL800 (YLSL)>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MS3-001-010		PANEL,FR
2	8A-MS3-002-010		PANEL,TW
3	8A-MS3-003-010		PANEL,BA
4	8A-MS3-004-010		PLATE,NAME
5	8A-MS3-006-010		GRILLE,FRAME ASSY
6	8A-MS3-010-010		PROTECTOR
7	8A-MS3-013-010		PANEL,BA B
8	8A-MS3-603-010		SPKR,M 120
9	88-MS1-608-010		SPKR, CERAMIC
10	88-NS5-611-010		CORD,SPKR B/L
11	88-MS1-610-010		CORD,SPKR
12	8Z-MS1-601-010		SPKR, W200 WZL90

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MA3-902-010		IB,LH (ESP) M<LH>
1	8A-MA3-903-010		IB,U (ESP) M<U>
2	87-043-115-010		ANT,FEEDER FM
3	87-099-789-010		PLUG,ADPTR IR44<LH>
4	87-A90-030-010		ANT,LOOP AM-NC C
5	8Z-MA1-702-010		RC UNIT,ZAS12

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111

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